

**Department of Human Physiology
Holy Cross College, Agartala**

STUDY PLAN

for 1st, 3rd, and 5th Semester Theory Classes

Academic Year: September 2022-March 2023

Dr. Sandeep Roy Sarkar
Assistant Professor
Department of Human Physiology

Holy Cross College, Agartala
Department of Human Physiology
TIME TABLE FOR CLASSES- B.Sc. (w.e.f. September, 2022)

Day	Time & Class	Time & Class	Time & Class	Time & Class	Time & Class	Time & Class	Time & Class	
	9am-9.50am	9.50am-10.40am	10.40 am -11.30 am	11.30 -12.15am	RECESS (12.15 – 1.00 pm)	1 pm – 1. 50pm	1.50pm – 2.40pm	2.40 pm – 3.30pm
Monday		HPHY-H3-SRS-F2-4					HPHY-H5-PRAC-F2-1-SRS	HPHY-H5-PRAC-F2-1-SRS
Tuesday			HPHY-H5- SRS-F2-4	HPHY-H5-SRS-F2-4				HPHY-G3-PRAC-C+D-SRS-F1-4
Wednesday	HPHY-H1-SRS-F2-4			HPHY-G1-SRS-F2-13				
Thursday		HPHY-G3-SRS-F2-8		HPHY-H1-SRS-F1-3		HPHY-H3-Ment. (SRS)-F2-4	HPHY-G5-PRAC-A-SRS-F2-1	HPHY-G5-PRAC-A-SRS-F2-1
Friday	HPHY-G1-SRS-F2-13		HPHY-G5-SRS-F2-2	HPHY-H1-Ment. (SRS)-F1-3			HPHY-H5-SRS-Library/Gr. Discus.	

Practical Groups: Gr-A (ZOO-H) Gr-B (HPHY-H) Gr-C (BOT-H) Gr-D (BSc. GEN.)
H=Hons. G=General PRAC=Practical Class (Lab) FNDC=Foundation MENT=Mentoring LIB=Library
HPHY: SRS- Dr. Sandeep Roy Sarkar

Semester: 1st Semester (Honours) -Theory

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required
September	Wednesday & Thursday	50 Mins.	Blood, body fluid & clinical hematology	1. Composition and general functions of blood. Plasma proteins. 2. Bone marrow, Hemopoetic stem cells	7
October	Wednesday & Thursday	50 Mins.	Blood, body fluid & clinical hematology	1. Erythropoiesis and its factors influencing. Leucopoiesis, Thrombopoiesis. 2. Blood volume. 3. Structure, Synthesis, function and degradation of hemoglobin.	5
November	Wednesday & Thursday	50 Mins.	Blood, body fluid & clinical hematology	1. Hemostasis, blood coagulation mechanisms. 2. Lymph and tissue fluid. 3. Blood indices.	8
December	Wednesday & Thursday	50 Mins.	Blood, body fluid & clinical hematology	1. Anemia: types, causes and preventive measures. 2. Thalassemia, Hemoglobinopathies, etc. 3. Concept of Jaundice and its types, features.	7
January	Wednesday & Thursday	50 Mins.	Blood, body fluid & clinical hematology	1. Disorder of coagulation, hemophilia, types and reasons, etc. 2. Blood groups.	8

Semester: 1st Semester (General) -Theory

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required
September	Wednesday & Friday	50 Mins.	Blood, body fluid & clinical hematology	1. Composition and general functions of blood. Plasma proteins. 2. Bone marrow, Hemopoetic stem cells	6
October	Wednesday & Friday	50 Mins.	Blood, body fluid & clinical hematology	1. Erythropoiesis and its factors influencing. Leucopoiesis, Thrombopoiesis. 2. Blood volume. 3. Structure, Synthesis, function and degradation of hemoglobin.	5
November	Wednesday & Friday	50 Mins.	Blood, body fluid & clinical hematology	1. Hemostasis, blood coagulation mechanisms. 2. Lymph and tissue fluid. 3. Blood indices.	8
December	Wednesday & Friday	50 Mins.	Blood, body fluid & clinical hematology	1. Anemia: types, causes and preventive measures. 2. Thalassemia, Hemoglobinopathies, etc. 3. Concept of Jaundice and its types, features.	7
January	Wednesday & Friday	50 Mins.	Blood, body fluid & clinical hematology	1. Disorder of coagulation, hemophilia, types and reasons, etc. 2. Blood groups.	7

Semester: 3rd Semester (Honours) -Theory

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required
September	Monday	50 Mins.	Metabolic biochemistry & molecular respiration	Inborn errors of metabolism.	3
October	Monday	50 Mins.	Metabolic biochemistry & molecular respiration	1. Gluconeogenesis. 2. Pentose Phosphate pathway, etc.	3
November	Monday	50 Mins.	Digestive system & nutrition	1. Chemical nature and structure of vitamins. 2. Co-enzymatic role of vitamins in metabolism.	4
December	Monday	50 Mins.	Digestive system & nutrition	Vitamin deficiency symptoms and disorders.	4
January	Monday	50 Mins.	Digestive system & nutrition	Bulk and trace elements.	4

Semester: 3rd Semester (General) -Theory

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/ Classes Required
September	Thursday	50 Mins.	Renal physiology	1. Anatomical structure of kidney. 2. GFR.	3
October	Thursday	50 Mins.	Renal physiology	Mechanism of urine formation.	3
November	Thursday	50 Mins.	Renal physiology	1. Micturition and reflexes. 2. Renal circulation.	4
December	Thursday	50 Mins.	Renal physiology	Non-excretory functions of kidney.	3
January	Thursday	50 Mins.	Renal physiology	Chronic renal failure.	4

Semester: 3rd Semester (General) -Practical

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/ Classes Required
September	Tuesday	50 Mins.	Renal physiology	Identification of abnormal constituents of urine: Glucose, Protein, Acetone, Bile salt.	3
October	Tuesday	50 Mins.	Renal physiology	1. Identification of abnormal constituents of urine from unknown sample. 2. Estimation of creatinine in blood.	3
November	Tuesday	50 Mins.	Renal physiology	1. Models of Excretory system.. 2. Identification of histological slides.	4
December	Tuesday	50 Mins.	Renal physiology	Human Reflexes.	3
January	Tuesday	50 Mins.	Renal physiology	Determination of muscle strength and endurance by Handgrip Dynamometry.	4

Semester: 5th Semester (Honours) -Theory

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required
September	Tuesday	100 Mins.	Excretory system	1. Anatomy of kidney. 2. Renal circulation. 3. GFR- factors affecting.	5
October	Tuesday	100 Mins.	Excretory system	1. Juxta – glomerular apparatus. 2. Hypo and hypertonic urine formation. 3. Non-excretory functions of kidney.	5
November	Tuesday	100 Mins.	Excretory system	1. Renal function tests. 2. Composition of normal urine, Diabetes insipidus. 3. Physiology of urinary bladder. 4. Diuretics, mode of action of osmotic diuretics. 5. Chronic renal failure.	8
December	Tuesday	100 Mins.	Skin & thermoregulation	1. Cutaneous circulation and its significance 2. Structure of sweat glands, sebaceous gland.	7
January	Tuesday	100 Mins.	Skin & thermoregulation	1. Concept of homeothermy and poikilothermy. 2. Heat stress, pyrexia, hibernation.	7

Semester: 5th Semester (Honours) -Practical

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required
September	Monday	100 Mins.	Biochemical analysis	Identification of abnormal constituents of urine: 1. Glucose 2. Protein 3. Acetone 4. Bile salt	6
October	Monday	100 Mins.	Biochemical analysis	Identification of abnormal constituents of urine from unknown sample.	5
November	Monday	100 Mins.	Biochemical analysis	1. Estimation of creatinine concentrations in blood. 2. Estimation of urea concentrations in blood. 3. Estimation of uric acid concentrations in blood.	8
December	Monday	100 Mins.	Histology	Histological slides.	7
January	Monday	100 Mins.	Histology	Staining (Hematoxylin and Eosin) of tissue sections.	7

Semester: 5th Semester (General) -Theory

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required
September	Friday	50 Mins.	Immunology	Humoral immunity, Complement system.	3
October	Friday	50 Mins.	Immunology	1. Primary and secondary immune responses. 2. vaccination.	2
November	Friday	50 Mins.	Immunology	Clonal selection hypothesis of antibody production.	4
December	Friday	50 Mins.	Immunology	Cell mediated immunity – role of cytotoxic T cell.	3
January	Friday	50 Mins.	Immunology	ELISA, RIA.	4

Semester: 5th Semester (General) -Practical

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required
September	Thursday	100 Mins.	Biochemistry and nutrition	Estimation of lactose content of milk (total).	4
October	Thursday	100 Mins.	Biochemistry and nutrition	Estimation of lactose content of milk (percentage).	4
November	Thursday	100 Mins.	Biochemistry and nutrition	Estimation of percentage quantity of carbohydrate in food.	6
December	Thursday	100 Mins.	Biochemistry and nutrition	Quantitative estimation of glucose and sucrose.	7
January	Thursday	100 Mins.	Biochemistry and nutrition	1. Ouster long double diffusion test (Ag-Ab reaction). 2. DNA electrophoresis – Demonstration.	8

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Study Plan for 1st, 3rd, and 5th Semester Theory Classes

Duration: September 2022-March, 2023

Holy Cross College



Dr. Balaram Sutradhar

(Assistant Professor)

Department of Human Physiology

Semester: 1st Semester (Honours) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
SEPTEMBER 2022						
September	Monday, Thursday & Friday	50 Mins.	Biochemistry and enzymology	Enzyme & classification	9	Pending
				Mechanism of enzyme action		
				Km value and its significance		
				Enzyme regulation and enzyme inhibition		
OCTOBER 2022						
October	Monday, Thursday & Friday	50 Mins.	Biophysical and biochemical principle	Dialysis and ultra filtration	7	Pending
				Basics about radioactivity		
				Fundamental idea of sub cellular fractionation		
NOVEMBER 2022						
November	Monday, Thursday & Friday	50 Mins.	Biochemistry and enzymology	Chemistry and classification of bio-molecules	8	Pending
				Properties of carbohydrate and proteins		
				Isomerism and its types.		
				Functional groups,		
				Osazone reaction		
DECEMBER 2022						
December	Monday, Thursday & Friday	50 Mins.	Biochemistry and enzymology	Polysaccharide structures, mucopolysaccharide	8	Pending
				Details of amino acids and protein structures		
				Fats, fatty acids and sterols		

Semester: 1st Semester (General) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
SEPTEMBER 2022						
September	Tuesday & Thursday	50 Mins.	Biochemistry and enzymology	Enzyme & classification	8	Pending
				Mechanism of enzyme action		
				Km value and its significance		
				Enzyme regulation and enzyme inhibition		
OCTOBER 2022						
October	Tuesday & Thursday	50 Mins.	Biophysical and biochemical principle;	Dialysis and ultra-filtration	8	Pending
				Basics about radioactivity		
				Fundamental idea of sub cellular fractionation		
NOVEMBER 2022						
November	Tuesday & Thursday	50 Mins.	Biochemistry and enzymology	Chemistry and classification of bio-molecules	7	Pending
				Properties of carbohydrate and proteins		
				Isomerism, and its types.		
				Functional groups, Osazone reaction		
DECEMBER 2022						
December	Tuesday & Thursday	50 Mins.	Biochemistry and enzymology	Polysaccharide structures, mucopolysaccharide	8	Pending
				Details of amino acids and protein structures		
				Fats, fatty acids and sterols		

Semester: 3rd Semester (Honours) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
SEPTEMBER 2022						
September	Wednesday & Thursday	50 Mins.	Metabolic Biochemistry and Molecular Respiration	Introduction to cellular respiration	5	Pending
				Organization of ETC		
				Chemi-osmotic hypothesis		
OCTOBER 2022						
October	Wednesday & Thursday	50 Mins.	Metabolic Biochemistry and Molecular Respiration	Mechanism of oxidative phosphorylation	4	Pending
				F ₀ -F ₁ ATPase		
NOVEMBER 2022						
November	Wednesday & Thursday	50 Mins.	Digestive System and Nutrition	Calorific value of foods and determination by Bomb calorimeter	9	Pending
				BMR and factors affecting BMR.		
				Dietary requirements of carbohydrate, protein and fat.		
				RDA		
DECEMBER 2022						
December	Wednesday & Thursday	50 Mins.	Digestive System and Nutrition	Food group,	8	Pending
				Balance diet for all age group		
				Malnutrition, types, preventive measure		
				Obesity and its impact on health		

Semester: 3rd Semester (General) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
SEPTEMBER 2022						
September	Monday & Tuesday	50 Mins.	Neurochemistry and Neurophysiology	Sensory/ascending tract	4	Pending
OCTOBER 2022						
October	Monday & Tuesday	50 Mins.	Neurochemistry and Neurophysiology	Motor / descending tract	5	Pending
NOVEMBER 2022						
November	Monday & Tuesday	50 Mins.	Renal physiology and stress biochemistry	Free radicals	8	Pending
				Oxidative stress		
				SOD, Catalase, glutathione,		
				Heavy metals		
DECEMBER 2022						
December	Monday & Tuesday	50 Mins.	Renal physiology and stress biochemistry	Antioxidants and their roles	8	Pending
				Pesticides , OP, OC		
				Active and passive smoking, harmful effects.		

Semester: 3rd Semester (Honours) (Practical)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
SEPTEMBER 2022						
September	Monday	50 Mins.	Clinical biochemistry	Estimation of serum cholesterol	3	Pending
OCTOBER 2022						
October	Monday	50 Mins.	Clinical biochemistry	Estimation of blood glucose	2	Pending
NOVEMBER 2022						
November	Monday	50 Mins.	Clinical biochemistry	Estimation of serum/plasma protein	4	Pending
DECEMBER 2022						
December	Monday	50 Mins.	Clinical biochemistry	Estimation of serum triglyceride	4	Pending
				Estimation of serum SGPT/SGOT		

Semester: 3rd Semester (General) (Practical)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
SEPTEMBER 2022						
September	Tuesday	50 Mins.	Model	Models of excretory system	3	Pending
OCTOBER 2022						
October	Tuesday	50 Mins.	Histology	Identification of histological slides	2	Pending
NOVEMBER 2022						
November	Tuesday	50 Mins.	Reflex	Superficial and deep reflex.	4	Pending

DECEMBER 2022						
December	Tuesday	50 Mins.	Endurance test	Muscle strength and endurance.	4	Pending

Semester: 5th Semester (Honours) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
SEPTEMBER 2022						
September	Monday & Thursday	50 Mins.	Nervous System	Introduction	6	Pending
				Neurotransmitter chemistry		
				Macromolecular neurochemistry		
				Neurophysiology of learning		
OCTOBER 2022						
October	Monday & Thursday	50 Mins.	Nervous System;	Maintenance and regulation of posture	6	Pending
			Reproductive physiology & developmental biology	Anatomical organization of male and female reproductive system		
NOVEMBER 2022						

November	Monday & Thursday	50 Mins.	Reproductive physiology & developmental biology	.Primary and secondary reproductive organs., puberty	12	Pending
				Testis histology, hormones of testis and their functions.		
				Ovary histology, hormones, their functions. Menstrual cycle		
				Embryogenesis		
DECEMBER 2022						
December	Monday & Thursday	50 Mins.	Reproductive physiology & developmental biology	Placental hormones , functions.	12	Pending
				Physiological changes during pregnancy		
				Physiology of parturation		
				Development of memory gland		
				Physiology of menopause		
				Fertility control- hormone		

Semester: 5th Semester (General) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
SEPTEMBER 2022						
September	Tuesday & Wednesday	50 Mins.	Molecular biology & immunology	Introduction	4	Pending
				Chemical nature of DNA and RNA		
				DNA- the genetic materials		
				Semi-conservative mode of DNA Replication		
OCTOBER 2022						
October	Tuesday & Wednesday	50 Mins.	Molecular biology & immunology	DNA replication in prokaryotes	5	Pending
				Okazaki fragments		
				Dna transcription in prokaryote		
NOVEMBER 2022						
November		50 Mins.		Protein synthesis in prokaryote	8	Pending

	Tuesday & Wednesday		Molecular biology & immunology	Activation of amino acids		
				Initiation of translation		
				Elongation		
				Termination of translation		
DECEMBER 2022						
December	Tuesday & Wednesday	50 Mins.	Molecular Biology and Immunology	Cloning of DNA into cloning vectors.	8	Pending
				Cloning of DNA into cloning vectors		

Semester: 5th Semester (Honours) (Practical)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
SEPTEMBER 2022						
September	Wednesday	50 Mins.	Experimental physiology	Study of effects of ions, drugs, and hypoxia, on intestinal movements and activity of heart.	3	Pending
OCTOBER 2022						
October	Wednesday	50 Mins.	Reflex	Human reflex: Superficial & deep reflex	2	Pending
NOVEMBER 2022						
November	Wednesday	50 Mins.	Reflex	Rhomberg sign- vestibular function	3	Pending
DECEMBER 2022						
December	Wednesday	50 Mins.	Experimental physiology	Study of effects of Ca ²⁺ , Mg ²⁺ , hypoxia, adrenaline, and nicotine, acetylcholine, on intestinal movements and activity of heart from supplied curves or by using computer software.	4	Pending

Study Plan for 1st, 3rd, and 5th Semester Theory Classes

Duration: September 2022-March 2023

Holy Cross College



Dr. Ashish Kumar Singha

(Assistant Professor)

Department of Human Physiology

Semester: 1st Semester (Honours) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
SEPTEMBER 2022						
September	Monday, Tuesday & Thursday	50 Mins.	Structural Units of Human System	Introduction	8	Pending
				Cell: structure and functions		
				Cell membrane models		
				Membrane transports: Passive and active transport, ion channels.		
OCTOBER 2022						
October	Monday, Tuesday & Thursday	50 Mins.	Structural Units of Human System	Ultra-structure of mitochondria	7	Pending
				Nucleus, nucleolus, chromosome		
				Cytoskeleton: Classification and functions.		
				Concept of cell cycle, mitosis, meiosis		
NOVEMBER 2022						
November	Monday, Tuesday & Thursday	50 Mins.	Structural Units of Human System	Apoptosis and necrosis	13	Pending
				Structure and functions of different types of tissues		
				Musculo-skeletal system		
				Smooth muscle, cardiac and skeletal muscle.		
				Skeletal system: bone structures and ligaments		
DECEMBER 2022						
December	Monday, Tuesday & Thursday	50 Mins.	Biophysical and biochemical principle	Osmosis, diffusion, surface tension, viscosity, homeostasis	12	Pending
				Donnan membrane equilibrium		
				Acids, bases, pH and buffers		
				Colloids		

Semester: 1st Semester (General) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
SEPTEMBER 2022						
September	Monday, & Wednesday	50 Mins.	Structural Units of Human System	Introduction	5	Pending
				Cell: structure and functions		
				Cell membrane models		
				Membrane transports: Passive and active transport, ion channels.		
OCTOBER 2022						
October	Monday, & Wednesday	50 Mins.	Structural Units of Human System	Cytoskeleton: Classification and functions.	5	Pending
				Concept of cell cycle, mitosis, meiosis		
				Apoptosis and necrosis		
NOVEMBER 2022						
November	Monday, & Wednesday	50 Mins.	Structural Units of Human System & Biophysical and biochemical principle	Structure and functions of different types of tissues	9	Pending
				Smooth muscle, cardiac and skeletal muscle.		
				Skeletal system: bone structures and ligaments		
				Osmosis, diffusion, surface tension, viscosity, homeostasis		
DECEMBER 2022						
December	Monday, & Wednesday	50 Mins.	Biophysical and biochemical principle	Donnan membrane equilibrium	8	Pending
				Acids, bases, pH and buffers		
				Colloids		

Semester: 3rd Semester (Honours) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
SEPTEMBER 2022						
September	Wednesday & Friday	50 Mins.	Metabolic Biochemistry and Molecular Respiration	Introduction	5	Pending
				Glycolysis and Regulation of glycolysis		
				Glycogenolysis and its regulation		
OCTOBER 2022						
October	Wednesday & Friday	50 Mins.	Metabolic Biochemistry and Molecular Respiration	TCA cycle and its regulation	4	Pending
				Biosynthesis of fatty acids		
				Deamination and trans amination		
NOVEMBER 2022						
November	Wednesday & Friday	50 Mins.	Metabolic Biochemistry and Molecular Respiration & Digestive System and Nutrition	Urea formation	9	Pending
				Anatomy and histology of alimentary tracts		
				Digestive juices		
				Formation of HCl		
				Digestion and absorption of carbohydrates, proteins and fats.		
DECEMBER 2022						
December	Wednesday & Friday	50 Mins.	Digestive System and Nutrition	Enteric nervous system and movement of alimentary tract	8	Pending
				Disorders of digestive system		
				Vitamins		

Semester: 3rd Semester (General) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
SEPTEMBER 2022						
September	Monday & Tuesday	50 Mins.	Neurochemistry and Neurophysiology	Introduction	4	Pending
				Carbohydrate metabolism in brain		
				Role of protein and lipids in brain		
OCTOBER 2022						
October	Monday & Tuesday	50 Mins.	Neurochemistry and Neurophysiology	Transmitter neurochemistry	5	Pending
NOVEMBER 2022						
November	Monday & Tuesday	50 Mins.	Neurochemistry and Neurophysiology	Skin and cutaneous receptors	8	Pending
				Structural and functional organization of nervous system		
				Properties of neuron		
				Transmission of impulse		
DECEMBER 2022						
December	Monday & Tuesday	50 Mins.	Digestive System and Nutrition	Reflex	8	Pending
				Skeletal muscle contraction		

Semester: 3rd Semester (Honours) (Practical)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
SEPTEMBER 2022						
September	Wednesday	50 Mins.	Nutritional Biochemistry	Estimation of lactose content of milk by Benedict's method.	3	Pending
OCTOBER 2022						
October	Wednesday	50 Mins.	Nutritional Biochemistry	Estimation of percentage quantity of carbohydrate in rice and potato.	2	Pending
NOVEMBER 2022						
November	Wednesday	50 Mins.	Nutritional Biochemistry	Estimation of moisture content of food.	4	Pending
DECEMBER 2022						
December	Wednesday	50 Mins.	Nutritional Biochemistry	Estimation of vitamin C in blood by 2,6-dichlorophenol indophenol method.	4	Pending

Semester: 3rd Semester (General) (Practical)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
SEPTEMBER 2022						
September	Wednesday	50 Mins.	P3B	Identification of abnormal constituents of Urine: albumin, ketone, sugar (glucose), bile salt and blood.	4	Pending
OCTOBER 2022						
October	Wednesday	50 Mins.	P3B	Identification of abnormal constituents of Urine: albumin, ketone, sugar (glucose), bile salt and blood.	6	Pending
NOVEMBER 2022						
November	Wednesday	50 Mins.	P3B	Identification of abnormal constituents of Urine: albumin, ketone, sugar (glucose), bile salt and blood.	10	Pending
DECEMBER 2022						
December	Wednesday	50 Mins.	P3B	Estimation of creatinine in blood.	10	Pending

Semester: 5th Semester (Honours) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
SEPTEMBER 2022						
September	Wednesday & Friday	50 Mins.	Nervous System	Introduction	6	Pending
				Brain ventricles		
				CSF: formation, composition, function, circulation		
				Ascending tracts		
OCTOBER 2022						
October	Wednesday & Friday	50 Mins.	Nervous System	Descending tracts	6	Pending
				Cerebral circulation		
				Limbic system		
NOVEMBER 2022						
November	Wednesday & Friday	50 Mins.	Endocrinology and Chronobiology	Concept of autoocrine, paracrine and endocrine system	12	Pending
				Mode of action of hormones		
				Pituitary glands		
				Hypothalamo- hypophyseal portal system		
				Thyroid, parathyroid and adrenal glands		
				Endocrine pancreas		
				Blood sugar regulation		
DECEMBER 2022						
December	Wednesday & Friday	50 Mins.	Endocrinology and Chronobiology	Hunger and satiety	12	Pending
				Hypo and hyper functions of endocrine glands		
				Regulations of hormones		
				Biological clocks		
				Different biological rhythms		

Semester: 5th Semester (General) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
SEPTEMBER 2022						
September	Monday & Thursday	50 Mins.	Nutrition and Dietetics	Introduction	4	Pending
				Carbohydrates		
				Protein		
				Fats		
OCTOBER 2022						
October	Monday & Thursday	50 Mins.	Nutrition and Dietetics	Vitamins and minerals	5	Pending
				Balance diet		
				BMR		
NOVEMBER 2022						
November	Monday & Thursday	50 Mins.	Nutrition and Dietetics	Protein requirement	8	Pending
				Vitamins		
				Minerals		
				Diet survey		
				Diet in different diseases		
DECEMBER 2022						
December	Monday & Thursday	50 Mins.	Molecular Biology and Immunology	Immune system	8	Pending
				Primary and secondary lymphoid organs		
				Antigen-antibody		

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**Department of Human Physiology
Holy Cross College, Agartala**

STUDY PLAN

for 2nd, 4th, and 6th Semester Theory Classes

Academic Year: April 2023-July 2023

JahnabiSaha

Faculty

Department of Human Physiology

HOLY CROSS COLLEGE, AGARTALA
Department of Human Physiology
TIME TABLE (w.e.f. April 2023)

DAY	09:00 am – 09:50 am	09:50am – 10:40 am	10:40 pm – 11:30 am	11:30 pm – 12:20 am	RECESS (12:20 pm – 01:00 pm)	01:00 pm-01:50 pm	01:50 pm – 02:40 pm	02:40 pm – 03:30 pm	
MONDAY	HPHY-II4- JS (F2-4)		HPHY- II4- PRAC(F1-4)- JS	HPHY-II2 – PRAC(F2-1)-JS				HPHY-II6-PROJ-JS	HPHY-II6-PROJ-JS
TUESDAY	HPHY-G4- JS (F2-2)	HPHY-II2-JS(F1-3)	HPHY-G2-PRAC- (C+D)-JS(F2-1)	HPHY-G2-PRAC- (C+D)-JS (F2-1)				HPHY-II6-PROJ-JS	HPHY-II6-PROJ-JS
WEDNESDAY								HPHY-II6-PROJ-JS	HPHY-II6-PROJ-JS
THURSDAY	HPHY-II6- JS(F1-3)	HPHY-II2- JS (F1-3)						HPHY-II6-PROJ-JS	HPHY-II6-PROJ-JS
FRIDAY	HPHY-G4- JS (F2-2)	HPHY-G2- JS (F2-8)						HPHY-II6-PROJ-JS	HPHY-II6-PROJ-JS

Practical Groups: Gr-A (ZOO-II) Gr-B (HPHY-II) Gr-C (BOT-II) Gr-D (BSc. GENERAL)II=Hons. G=General
 JS – JahnabiSaha

Semester: 2nd Semester (Honours)-Theory

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required
April	Tuesday & Thursday	50 mins	Cardio-vascular System	Anatomy of heart, innervations of heart and blood vessels Junctional tissues of heart, origin and spread of cardiac impulse, conduction defects- arrhythmia, AV block, bundle branch block	4 classes
May	Tuesday & Thursday	50 mins	Cardio-vascular System	Cardiac output, measurements, factors controlling cardiac output Heartsounds- significances, murmur causes	8 classes
June	Tuesday & Thursday	50 mins	Cardio-vascular System	Blood pressure: factors affecting blood pressure, regulation of blood pressure with special reference to sino-aortic mechanism. Bradycardia, Tachycardia, Hyper-tension: primary and secondary	8 classes
July	Tuesday & Thursday	50 mins	Cardio-vascular System	E.C.G. different lead systems, different waves and intervals, their significance Einthoven's law, determination of electrical axis, significance	8 classes

Semester: 2nd Semester (Honours) -Practical

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required
April	Monday	50 min	Group B	.Heart rate. Measurement of blood pressure, effect of posture.	2

May	Monday	50 min	Group C	Study of Microscope Study of squamous epithelium	4
June	Monday	50 min	Group D	Study of human skeleton	4
July	Monday	50 min	Revision	Revision classes according to students need	4

Semester: 2ndSemester (General)-Theory

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required
April	Friday	50 min	Cardio-vascular & respiratory system	Anatomy of human heart, its innervations, course of circulation of blood through it	2 classes
May	Friday	50 min	Cardio-vascular & respiratory system	Properties of Cardiac muscle and junctional tissues, origin and spread of cardiac impulse. Cardiac cycle and heart sound, significance of different heart sounds	4 classes
June	Friday	50 min	Cardio-vascular & respiratory system	Cardiac output – its determination and factors controlling cardiac output- regulation of cardiac output Heart-rate-factors controlling it, tachycardia, bradycardia	4 classes
July	Friday	50 min	Cardio-vascular & respiratory system	Blood pressure-regulation of blood pressure,concept of hypertension Atherosclerosis,coronary thrombosis E.C.G different lead systems,different waves and	4 classes

				intervals,their significances Einthoven's law,determination of electrical axis	
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Semester: 2nd Semester (General) -Practical

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required
April	Tuesday	50 min x 2	Group C + D	1. Blood Film. 2. TC, DC, Arneth Count	4
May	Tuesday	50 min x 2	Group C + D	1. Hb concentration 2. Blood Grouping 3. BT, CT, ESR	8
June	Tuesday	50 min x 2	Group C + D	1. Hemin Crystal Measurement of Heart rate. 2. Measurement of blood pressure, effect of posture. 3. Study of microscope.	8
July	Tuesday	50 min x 2	Group C + D	1. Study of squamous epithelium. 2. Study of human skeleton 3. Qualitative identification of known & unknown sample	4

Semester: 4th Semester (Honours) -Theory

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required
April	Monday	50 mins	Ergonomics and Sports Physiology	Scope and application of ergonomics and work Physiology Static and Dynamic work, Classification of work and exercise. Energy cost of different Physical	4 classes

				activities-its determination.	
May	Monday	50 mins	Ergonomics and Sports Physiology	Ergometry-working principle of ergometers – bicycle and treadmill. Importance of measurement of different physiological parameters like heart rate (pulse rate), O ₂ -consumption, blood pressure.	4 classes
June	Monday	50 mins	Ergonomics and Sports Physiology	Anthropometry in ergonomics, common anthropometric measurements used in work place design. Muscles in exercise strength, power and endurance of muscles.	4 classes
July	Monday	50 mins	Ergonomics and Sports Physiology	Muscles metabolic system in exercise (energy source during muscular exercise). Nutrients used during exercise.	4 classes

Semester: 4thSemester (Honours) -Practical

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required
April	Monday	50 min	Group C	Determination of PFI by Harvard step test and graphical representation of recovery pulse rate.	2
May	Monday	50 min	Group C	Determination of muscle strength and endurance by hand grip Dynamometer.	4
June	Monday	50 min	Group C	Determination of muscular efficiency by ergography.	4

July	Monday		Revision	Revision classes according to students need.	4
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Semester: 4thSemester (General)-Theory

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required
April	Tuesday & Friday	50 mins	Endocrinology & reproductive physiology	Anatomical organization of male and female reproductive system; Primary and Secondary sex organs	4 classes
May	Tuesday & Friday	50 mins	Endocrinology & reproductive physiology	Testis-histology, Spermatogenesis, Factors affecting Spermatogenesis, Hormones of testis and their functions	8 classes
June	Tuesday & Friday	50 mins	Endocrinology	Ovary-Histology, Oogenesis, Hormones of Ovary their function and mode of action, Menstrual cycle and its regulation	8 classes
July	Tuesday & Friday	50 mins	Endocrinology	Concept of Fertilization, Structure of Placenta, Placental hormones and their functions, Development of three germinal layers, Pregnancy Test	8 classes

Semester: 6thSemester (Honours)-Theory

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required
April	Thursday	50 mins	Microbiology, Biotechnology & Immunology	Bacteria, virus and fungus – their structure and characteristics bacterial classification Bacterial growth cycle, and factors (pH, temperature, nutritional requirement) controlling bacterial growth Bacterial genetics – transformation, conjugation, transduction	4 classes

May	Thursday	50 mins		Bacteriostatic and bactericidal agents and their effects Brief idea of antibiotics with examples Some common diseases caused by bacteria, fungus and virus - Cholera,eczema and influenza - their symptoms and preventive measures	4 classes
June	Thursday	50 mins	Molecular biology & genetics	Protein synthesis: genetic code, codons, reading frame, Nirenberg's experiment, initiation codon, terminator codon, degeneracy of genetic code, Wobble hypothesis.	4 classes
July	Thursday	50 mins		Mechanism of translation: activation of amino acid, formation of initiation complex, Shine-Dalgarno sequence, role of A site and P site.Elongation:role of elongation factors,translocation. Termination:role of terminators and release factors, post transcriptional modification	4 classes

S. S.
12.04.23

**Department of Human Physiology
Holy Cross College, Agartala**

STUDY PLAN

for 2nd, 4th, and 6th Semester Theory Classes
Academic Year: April 2023-July 2023

Dr. Ashish Kumar Singha
Assistant Professor
Department of Human Physiology

HOLY CROSS COLLEGE, AGARTALA
Department of Human Physiology
TIME TABLE (w.e.f. April 2022)

DAY	09:00 am – 09:50 am	09:50am – 10:40 am	10:40 pm – 11:30 am	11:30 pm – 12:20 am		01:00 pm-01:50 pm	01:50 pm – 02:40 pm	02:40 pm – 03:30 pm
MONDAY	HPHY-G4-AKS (F2-2)		HPHY-H4-PRAC-AKS/ JS (F1-4)	HPHY-H4-PRAC-AKS/SRS (F1-4)	RECESS (12:20 pm – 01:00 pm)		HPHY-H6-PROJ-AKS	HPHY-H6-PROJ-AKS
TUESDAY	HPHY-H6-AKS (F1-3)						HPHY-H6-PROJ-AKS	HPHY-H6-PROJ-AKS
WEDNESDAY	HPHY-H4-AKS (F2-4)	HPHY-H2-AKS (F1-3)				HPHY-H2-Mentoring-AKS (F2-4)	HPHY-H6-PROJ-AKS	HPHY-H6-PROJ-AKS
THURSDAY		HPHY-G2-AKS (F2-8)	HPHY-H6-PRAC-AKS	HPHY-H6-PRAC-AKS			HPHY-H6-PROJ-AKS	HPHY-H6-PROJ-AKS
FRIDAY	HPHY-H4-AKS (F2-4)		HPHY-G4-PRAC(Group A)-AKS (F1-4)				HPHY-H6-PROJ-AKS	HPHY-H6-PROJ-AKS

Semester: 2nd Semester (Honours) -Theory

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/ Classes Required
April	Wednesday	50 min	Physiology of Excitable Cell	1. Mechanism of transduction of stimuli from sensory receptor. 2. Reflex arc & reflex action. Properties of reflex action.	2
May	Wednesday	50 min	Physiology of Excitable Cell	1. Classification of reflexes. Conditioned and unconditioned reflexes. 2. E-C coupling, sliding filament theory, Modern concept of muscle contraction, isotonic and isometric contraction.	5
			Cardio-vascular system	2. Courses, peculiarities of coronary circulation.	
June	Wednesday	50 min	Cardio-vascular system	1. Atherosclerosis, CHD, Cardiac failure, Angina pectoris, CVS shock, mitral stenosis, 2. Hemorrhage - effects and compensatory adjustment.	4
July	Wednesday	50 min	Physiology of Excitable Cell and Cardio-vascular system	Revision	2

Semester: 2nd Semester (General) -Theory

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/ Classes Required
April	Thursday	50 min	Digestion and Metabolism	1. Anatomy, histology and function of alimentary tract and digestive glands.	2
May	Thursday	50 min	Digestion and Metabolism	1. Composition of different digestive juices, mechanism of secretion. Formation of saliva. HCl, gastric juice, pancreatic juice, bile-functions. 2. Digestion and absorption: Carbohydrates, Proteins, Fats.	4
June	Thursday	50 min	Digestion and Metabolism	1. Movements of alimentary tract. 2. Absorption of Iron, Vitamin B12, Calcium. 3. Gastrointestinal hormones- gastrin, secretin, CCK: source and function.	4
July	Thursday	50 min	Digestion and Metabolism	Revision	2

Semester: 4th Semester (Honours) -Theory

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/ Classes Required
April	Wednesday & Friday	50 min	Respiratory System and Aviation Physiology	1. Basic concepts on Asphyxia, Apnoea, Hyperapnoea, Cyanosis, Periodic breathing, Dyspnoea, Chronic obstructive pulmonary disease – asthma, restrictive pulmonary disease – emphysema.	4
May	Wednesday & Friday	50 min	Ergonomics and Sports Physiology	1. Physiological changes during exercise-cardiovascular (circulatory) and respiratory changes, steady state, second wind, Fatigue-causes. 2. Metabolic changes during exercise-anaerobic power capacity, maximum aerobic power VO ₂ max – its determination and significance, Recovery of metabolic systems after exercise, O ₂ debt.- lactacids and alactacids.	9
June	Wednesday & Friday	50 min	Ergonomics and Sports Physiology	1. Exercise training: Principles of training, aerobic and anaerobic training, Effects of training on muscles, cardiovascular (circulatory) and respiratory system. 2. Nutrition/Diet in athletics performance-pregame meal, Glycogen/carbohydrate loading. 3. Doping in sports; ethical issues, harmful effects of caffeine, steroids, amphetamine and cocaine abuse on health.	9
July	Wednesday & Friday	50 min	Ergonomics and Sports Physiology	Revision	4

Semester: 4th Semester (Honours) -Practical

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/ Classes Required
April	Monday	50 min	Group A	1. Spirometric determination of VC, FVC, FEV1, FRV1, MVV 2. Determination of heart rate, P-R interval, Q-T, QRS duration and S-T segment from electrocardiogram.	2
May	Monday	50 min	Group A	1. Determination of electrical axis of heart from stenoid. 2. Effect of posture and exercise on blood pressure. 3. Determination of VO2 max by Queens college step tests.	10
			Group B	4. Prediction of BMR using prediction equation of ICMR and determination of BMR of a person from the graphical record of Benedict Roth apparatus from the applied graphical record. 5. Estimation of body fat by using skin fold method.	
June	Monday	50 min	Group B	1. Determination of respiratory rate by pncumograph: Effects of Hyperventilation, Breath holding and exercise on respiratory pattern.	8
			Group C	2. Determination of PFI by Harvard step test and graphical representation of recovery pulse rate. 3. Determination of muscle strength and endurance by hand grip Dynamometer. 4. Determination of muscular effeciency by ergography.	
July	Monday		Revision	Revision classes according to students need.	4

Semester: 4th Semester (General) -Theory

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/ Classes Required
April	Monday	50 min	Brain and Sensory Physiology	1. Cerebellum- Histology, Nuclei, Connections and Functions.	1
May	Monday	50 min	Brain and Sensory Physiology	1. Concept of ANS- Classification, Structural and Functional organization. 2. Basal ganglia structure, connections and functions. 3. Electrical activities of cerebral cortex, Physiological basis of EEG, epilepsy, Types of Sleep and effect of sleep deprivation. 4. CSF- composition, formation, circulation and function.	5
June	Monday	50 min	Brain and Sensory Physiology	1. Eye: histology of retina, Photochemical changes after exposure of light on retina, accommodation, refractive errors and their corrections, Argyll Robertson pupil, visual pathway. 2. Ear: Structure of external, internal and middle ear. Propagation of sound waves through different parts of ear and their role in hearing, Auditory pathway.	4
July	Monday	50 min	Brain and Sensory Physiology	Revision	2

Semester: 4th Semester (General) -Practical

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/ Classes Required
April	Friday	50 min	Model	Models of eye, ear, nose, skin and tongue, structure and function of different parts.	2
May	Friday	50 min		1. Tests for detecting defects of color vision. 2. Rinne's/Weber's tests for deafness.	4
			Model	3. Models of eye, ear, nose, skin and tongue, structure and function of different parts.	
June	Friday	50 min		Romberg's sign- Vestibular function.	5
July	Friday	50 min		Revision	2

Semester: 6th Semester (Honours) -Theory

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/ Classes Required
April	Tuesday (Project: all 5 Days)	50 min (Project: 5X2=10)	Sensory Physiology Project	1. Vision: anatomy and structure of eyeball, histology of retina, photochemical changes of retina on exposure to light, visual pathway, reflexes of the eye, accommodation, refractive errors and their remedies, visual field – scotopic and photopic vision, visual acuity, perception of depth.	22
May	Tuesday (Project: all 5 Days)	50 min (Project: 5X2=10)	Sensory Physiology Project	1. Positive and negative after image, light and dark adaptation, theories of colour vision, colour blindness, basic idea about glaucoma.	51
			Molecular biology & genetics Project	2. DNA- the genetic material, transformation in pneumococcus (Avery, MacLeod and McCarty), Griffith and Hershey- Chase experiments. 3. Semi conservative model of DNA replication. 4. DNA polymerase I and III, DNA ligase, function of different subunits, Okazaki fragments.	
June	Tuesday (Project: all 5 Days)	50 min (Project: 5X2=10)	Molecular biology & Genetics. Project	1. DNA transcription: Concept of gene, difference between prokaryotic and eukaryotic gene, mechanism of gene transcription, template and non-template strand. Promoter sites, RNA polymerase- functions of different components of RNA polymerase. Post transcriptional processing of eukaryotic mRNA.	48

				<p>2. Regulation of gene expression, operon concept, lac operon, cistron.</p> <p>3. Different stages of meiosis, and behavior of chromosome, during meiosis.</p>	
July	Tuesday (Project: all 5 Days)	50 min (Project: 5X2=10)	Research methodology & Epidemiology. Project	<p>1. Utility of statistics in research, measures of central tendencies (mean, median, mode), standard deviation (SD), standard error of mean (SEM), student's T- test,</p> <p>2. Graphical representation of data frequency, polygon, histogram, normogram, bar diagram, pie diagram. Testing of hypothesis, null hypothesis, test of significance, degree of freedom.</p>	22

Semester: 6th Semester (Honours) -Practical

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required
April	Thursday	50 min	A. Microbiology & Immunology	a. Gram staining of bacteria. b. Ouchterlony double diffusion test (pattern of antigen antibody interaction).	4
May	Thursday	50 min	A. Microbiology & Immunology	a. Single colony isolation by agar streak method.	8
			B. Sensory physiology	b. Models of eye, ear, nose, tongue, skin, structure and functions c. Tests for detecting defects of colour vision d. Rinne's weber's test for deafness e. Visual acuity- snellen's chart f. Audiometry	
June	Thursday	50 min	C. Molecular biology & Genetics.	a. DNA isolation b. DNA/Protein separation by paper electrophoresis & gel electrophoresis	10
			D. Research methodology	a. Mean, median, mode, standard deviation, standard error of mean calculation. b. Test of significance (t-test) calculation.	
July	Thursday	50 min		Revision	4

*Adish
20-04-23*

**Department of Human Physiology
Holy Cross College, Agartala**

STUDY PLAN

for 2nd, 4th, and 6th Semester Theory Classes

Academic Year: April 2023-July 2023

Dr. Sandeep Roy Sarkar
Assistant Professor
Department of Human Physiology

HOLY CROSS COLLEGE, AGARTALA
Department of Human Physiology
TIME TABLE (w.e.f. April 2023)

DAY	09:00 am – 09:50 am	09:50am – 10:40 am	10:40 pm – 11:30 am	11:30 pm – 12:20 a	01:00pm – 01:50 pr	01:50 pm – 02:4 pm	02:40 pm – 03 pm
MONDAY		HPHY-G2-SRS (F2-8) E6 SS3	HPHY-H2-PRAC-SRS (F2-1) SS2 Grp B, F2-13	HPHY-H4- PRAC-SRS (F1-4) SS2 Grp B, F2-13	RECESS (12:20 pm – 01:00 pm)	FNDC 2 Grp C, F2-13 SS1 Grp B, F1-10	HPHY -H6-PROJ-SRS HPHY -H6-PROJ-SRS
TUESDAY		HPHY-G2-SRS (F2-8) E6 SS3		HPHY-H6- Library		HPHY-H4- Mentoring-SRS (F2-4) FNDC 2 Grp C, F2-13 SS1 Grp B, F1-10	HPHY -H6-PROJ-SRS HPHY -H6-PROJ-SRS
WEDNESDAY	HPHY-H6- SRS (F1-3)		HPHY-H2-Activity (F2-1) HPHY-H4- Class Presentation (F1-4) SS2 Grp B, F2-13	HPHY-H2-Activity (F2-1) HPHY-H4- Class Presentation(F1-4) HPHY-H6- Sports		FNDC-4 ©, F2-13	HPHY -H6-PROJ-SRS HPHY -H6-PROJ-SRS
THURSDAY	HPHY-H4- SRS (F2-4)	E6 SS3	HPHY-H4- Sports			HPHY-H6- Sports FNDC-2 ©, F2-13	HPHY -H6-PROJ-SRS HPHY -H6-PROJ-SRS
FRIDAY	HPHY-H6- SRS (F1-3)	E6 SS3	HPHY-G2-PRAC (Group A)-SRS (F2-1)	HPHY-G2-PRAC (Group A)-SRS (F2-1)		FNDC-2 ©, F2-13 SS1 Grp B, F1-10	HPHY -H6-PROJ-SRS HPHY -H6-PROJ-SRS

[Practical Groups: Gr-A (ZOO-H) Gr-B (HPHY-H) Gr-C (BOT-H) Gr-D (BSc. GENERAL)]

H=Hons. G=General PRAC=Practical Class (Lab) FNDC=Foundation SS1, SS2, SS3 = For 6th Sem. MENT=Mentoring PROJ=Project LIB=Library

HPHY: SRS- Dr. Sandeep Roy Sarkar

Semester: 2nd Semester (Honours) -Practical

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/ Classes Required
April	Monday	50 Mins.	Hematology	Preparation of blood film, identification of different blood cells.	6
May	Monday	50 Mins.	Hematology	Total count of RBC and WBC, Differential count, Arneeth count.	8
June	Monday	50 Mins.	Hematology	1. Determination of hemoglobin concentration. 2. Determination of MCV, MCH, MCHC.	8
July	Monday	50 Mins.	Hematology	1. Blood group determination. 2. Coagulation time, bleeding time and ESR.	6

Semester: 2nd Semester (General) -Theory

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/ Classes Required
April	Monday & Tuesday	50 Mins.	Respiratory system	1. Anatomy and histology of respiratory system. 2. Mechanism of respiration.	5
May	Monday & Tuesday	50 Mins.	Respiratory system	1. Respiratory muscles. 2. Neural control of respiration. 3. Chemical control of respiration.	8
June	Monday & Tuesday	50 Mins.	Respiratory system	1. Transport of O ₂ and CO ₂ . 2. Spirometry. 3. lung volume and capacity.	8
July	Monday & Tuesday	50 Mins.	Respiratory system	1. Coronary circulation. 2. Pulmonary circulation.	7

Semester: 2nd Semester (General) -Practical

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/ Classes Required
April	Friday	100 Mins.	Hematology	1. Preparation of blood film and identification of blood cells. 2. Armeth count. Hemoglobin	8
May	Friday	100 Mins.	Hematology	1. Total count of RBC and WBC. 2. Blood group determination, BT, CT.	15
June	Friday	100 Mins.	Hematology	1. Hemin crystal, BP, HR. 3. Study of microscope and squamous epithelium. 4. Study of human skeleton.	16
July	Friday	100 Mins.	Biochemistry	Qualitative identification of physiological important substances	12

Semester: 4th Semester (Honours) -Theory

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/ Classes Required
April	Thursday	50 Mins.	Respiratory system & Aviation physiology	1. Changes in body at high altitude. 2. Motion sickness.	3
May	Thursday	50 Mins.	Respiratory system & Aviation physiology	1. Acclimatization to high altitude 2. Accelerative & gravitational forces. 3. Positive & negative G.	4
June	Thursday	50 Mins.	Respiratory system & Aviation physiology	1. Effect of weightlessness on human body. 2. Effects of weightlessness on CVS.	4
July	Thursday	50 Mins.	Respiratory system & Aviation physiology	1. Effects on blood, immune system. 2. Space motion sickness.	3

Semester: 4th Semester (Honours) - Practical

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/ Classes Required
April	Monday	50 Mins.	Brain	Spirometric determinations	2
May	Monday	50 Mins.	Reproductive physiology	1. Determination of heart rate, P-R interval, Q-T, etc. 2. Determination of electrical axis of heart	4
June	Monday	50 Mins.	Reproductive physiology	Effect of posture and exercise on blood pressure.	3
July	Monday	50 Mins.	Reproductive physiology	Determination of VO ₂ max	2

Semester: 6th Semester (Honours) -Theory

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/ Classes Required
April	Wednesday. & Friday. (Project: All 5 days)	50 Mins. X 2 (Project: 50 Mins. X 10)	Sensory Physiology. Project	1. Audition: Structure and function, audiometry. 2. Project	24
May	Wednesday. & Friday. (Project: All 5 days)	50 Mins. X 2 (Project: 50 Mins. X 10)	Immunology. Project	1. Immune system, innate and acquired immunity. 2. Primary and secondary lymphoid organs. 3. Antigen, immunogen, MHC molecules. 4. Humoral immunity- general structure of IgG antibodies. 5. Cell mediated immunity – role of CTL and T _H .	48

				6. Complement components of classical and alternative pathways. 7. Project.	
June	Wednesday & Friday. (Project: All 5 days)	50 Mins. X 2 (Project: 50 Mins. X 10)	Molecular biology & Genetics. Project	1. Mutation: spontaneous and induced mutation, mutagens. 2. Chromosomal mutation. 3. Repair of mutation-mismatch, excision. 4. Project	46
July	Wednesday & Friday. (Project: All 5 days)	50 Mins. X 2 (Project: 50 Mins. X 10)	Research methodology & Epidemiology. Project	1. Definition of epidemiology, Recent developments. 2. Scope and uses. 3. Concept of disease occurrence. 4. Measuring disease frequency, etc. 5. Project.	30

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10-04-2013

**Department of Human Physiology
Holy Cross College, Agartala**

STUDY PLAN

for 2nd, 4th, and 6th Semester Theory Classes
Academic Year: April 2023-July 2023

Dr. Susmita Saha
Assistant Professor
Department of Human Physiology

HOLY CROSS COLLEGE, AGARTALA
Department of Human Physiology
TIME TABLE (w.e.f. April 2023)

DAY	09:00 am – 09:50 am	09:50am – 10:40 am	10:40 pm – 11:30 am	11:30 pm – 12:20 am		01:00pm – 01:50 pm	01:50 pm – 02:40 pm	02:40 pm – 03:30 pm
MONDAY	HPHY-H6-SS (F1-3)	HPHY-H2-SS (F1-3)	HPHY-H2-PRAC-SS (F2-1)	HPHY-H2-PRAC-SS (F2-1)	RECESS (12:20 pm – 01:00 pm)		HPHY-H6-PROJ-SS	HPHY-H6-PROJ-SS
TUESDAY	HPHY-H4-SS (F2-4)		HPHY-G4-PRAC(C+D)-SS (F1-4)	HPHY-G4-PRAC-SS (F1-4)			HPHY-H6-PROJ-SS	HPHY-H6-PROJ-SS
WEDNESDAY	HPHY-G4-SS (F2-2)	HPHY-G2-SS (F2-8)	HPHY-H2-Activity (F2-1)	HPHY-H2-Activity (F2-1)			HPHY-H6-PROJ-SS	HPHY-H6-PROJ-SS
THURSDAY	HPHY-G4-SS (F2-2)						HPHY-H6-PROJ-SS	HPHY-H6-PROJ-SS
FRIDAY		HPHY-H2-SS (F1-3)	HPHY-H6- Project Activity	HPHY-G4-PRAC (Group A) SS (F1-4)			HPHY-H6-PROJ-SS	HPHY-H6-PROJ-SS

Practical Groups: Gr-A (ZOO-II) Gr-B (HPHY-II) Gr-C (BOT-II) Gr-D (BSc. GENERAL) H=Hons. G=General SS- Dr. Susmita Saha

Semester: 2nd Semester (Honours) -Theory

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/ Classes Required
April	Monday & Friday	50 mins	Nerve cell and fibres.	Students will be able to: (1) Learn about the Structure of nerve cell and fibres. (2) Learn about Learn about the properties, and classification of nerve cell and fibres.	4 classes
			Degeneration and regeneration of nerve fibres.	Students will be able to: (1) Understand the Degeneration of nerve fibres. (2) Learn about regeneration of nerve fibres.	
May	Monday & Friday	50 mins	Properties of nerve fibres, generator potential,	Students will be able to: (1) Learn the properties of nerve fibres. (2) Modern concept of generation of resting potential (3) Modern concept of Generator potential,	8 classes
			Action potential. Propagation of nerve impulse.	Students will be able to: (1) Learn about basic ideas Action potential. (2) Know about process of Propagation of nerve impulse.	
June	Monday & Friday	50 mins	Synapse.	Students will be able to: (1) Learn about the Structure of synaptic junction. (2) Understand about the Properties of synapse and Classification.	8 classes
			Transmission of nerve impulse.	Students will be able to: (1) Learn about the Transmission of nerve impulse across the synaptic junction. (2) Understand about the macromolecular process of nerve impulse transmission.	
July	Monday & Friday	50 mins	Neuro-muscular junction.	Students will be able to: (1) Learn about the structure of Neuro-muscular junction. (2) Understand about the nerve impulse propagation across the neuro-muscular junction.	8 classes

			Propagation of nerve impulse across the neuro-muscular junction.	Students will be able to: (1) Learn about the Propagation of nerve impulse across the neuro-muscular junction. (2) Understand about the macromolecular process of nerve impulse propagation across the neuro-muscular junction.	
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Semester: 2nd Semester (Honours) -Practical

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/ Classes Required
April	Monday	50 min x 2	Group A	1. Blood Film. 2. TC, DC, Arneht Count	4
May	Monday	50 min x 2	Group B	1. Hb concentration 2. Blood Grouping 3. BT, CT, ESR	8
June	Monday	50 min x 2	Group C	1. Hemin Crystal Measurement of Heart rate. 2. Measurement of blood pressure, effect of posture. 3. Study of microscope.	8
July	Monday	50 min x 2	Group D	1. Study of squamous epithelium. 2. Study of human skeleton	4

Semester: 2nd Semester (General) -Theory

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/ Classes Required
April	Wednesday	50 mins	Enzymatic steps in Metabolic pathways.	Students will be able to: (1) Learn about basic ideas of Enzymatic steps in glycolysis, TCA cycle, Cori cycle and their significance. (2) Know about HMP pathway and its significance.	3 classes
May	Wednesday	50 mins	Glycogenesis, glycogenolysis, gluconeogenesis.	Students will be able to: (1) Learn about the Glycogenesis, glycogenolysis, gluconeogenesis. (2) Understand about steps of Glycogenesis, glycogenolysis, gluconeogenesis.	4 classes
June	Wednesday	50 mins	Energy during glycolysis and TCA cycle, brief description of E.T.C, oxidative phosphorylation.	Students will be able to: (1) Learn about the Energy during glycolysis and TCA cycle. (2) Understand about the description and significance of E.T.C, oxidative phosphorylation	4 classes
July	Wednesday	50 mins	Lipid oxidation	Students will be able to: (1) Learn about Beta oxidation: steps, energy change. ketone bodies, prostaglandins-significance.	4 classes
			Deamination and transamination of amino acids. Urea formation.	Students will be able to: (1) Learn about the process of Deamination and transamination of amino acids. (2) Learn about mechanism of Urea formation.	

Semester: 4th Semester (Honours) -Theory

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/ Classes Required
April	Tuesday	50 mins	Respiratory tract	Students will be able to: (1) Learn about Anatomy and histology of respiratory tract and organs. (2) Learn about Muscles of respiration.	3 classes
			Mechanisms of breathing	Students will be able to: (1) Learn about Mechanism of breathing. (2) Understand insights of, respiratory pressure, lung compliance, surfactant, airway resistance.	
May	Tuesday	50 mins	Pulmonary function test	Students will be able to: (1) Learn about Importance of lung volume and capacities. (2) Learn about Importance of Spirometry: measurement of Vital capacity, FVC, Timed Vital capacity, FEV1, MVV or MBC, PEFr with their significance..	4 classes
			Ppulmonary circulation.	Students will be able to: (1) Know about Course, peculiarities of pulmonary circulation. (2) Learn about control of pulmonary circulation.	
June	Tuesday	50 mins	Transport of O ₂ and CO ₂ , O ₂ dissociation curve- factors affecting and significance.	Students will be able to: (1) Learn about Transport of O ₂ and CO ₂ . (2) Understand insights of muscles metabolic sysytem in exercise (energy source during muscular exercise) Nutrients used during exercise.	4 classes
July	Tuesday	50 mins	Regulation of Respiration – neural and chemical	Students will be able to: (1) Learn about neural regulation of Respiration. (2) Understand insights of chemical regulation of Respiration.	4 classes

Semester: 4th Semester (General) -Theory

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/ Classes Required
April	Wednesday & Thursday	50 mins	Endocrine gland, Signal Transduction and Second messengers.	Students will be able to: (1) Learn about Anatomical organization of endocrine glands in the body, Chemical classification of hormones. (2) Learn about, Mode of action of hormones, Signal Transduction and Second messengers.	4 classes
May	Wednesday & Thursday	50 mins	Pituitary gland.	Students will be able to: (1) Learn about Pituitary gland: histology, function of the anterior and posterior pituitary glands, their hormones. (2) Understand the Symptoms of hypo and hyper function of TSH and ACTH.	8 classes
June	Wednesday & Thursday	50 mins	Thyroid, Parathyroid and Adrenal gland.	Students will be able to: (1) Learn about histology of Thyroid, Parathyroid and Adrenal gland. (2) Understand the chemical nature, mode of action, physiological function of Thyroid, Parathyroid and Adrenal gland.	8 classes
July	Wednesday & Thursday	50 mins	Endocrine Pancreas.	Students will be able to: (1) Learn about Histology of Islets of Langerhans. (2) Understand the Chemistry and Function of insulin and glucagon; Diabetes mellitus- type I and Type II diabetes; their cause, Blood sugar regulation, role of different hormones. (4) Understand the Glucose tolerance and their importance, Mode of action of insulin, role of GLUT transporters.	8 classes
			Regulation of hormones feedback mechanism.	Students will be able to: (1) Learn about Regulation of hormones feedback mechanism.	

Semester: 4th Semester (General) -Practical

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/ Classes Required
April	Tuesday & Friday	50 min x 3 classes/ week	Histology	Histological slides and models on brain and endocrine system. Study of anatomical position, structure and function.	6
May	Tuesday & Friday	50 min x 3 classes/ week	Model	1.Model of Reproductive system. Study of reproductive system: organs in female pelvic cavity- their anatomical position Structure and Function (uterus, cervix, falopian tube, ovary). 2.Models of eye, ear, nose, skin and tongue, structure and function of different parts.	12
June	Tuesday & Friday	50 min x 3 classes/ week	Histology	Histological slides on ovary, uterus and cervix. Study of primary, secondary and Tertiary graffian fillicles, corpus leuteum, oocyte and sperm.	12
July	Tuesday & Friday	50 min x 3 classes/ week	Physiological Test	Test to detect any defects or not in color vision	9
				Deafness	
				Vestibular Function	

Semester: 6th Semester (Honours) -Theory

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/ Classes Required
April	Monday	50 mins Project: 2 classes x 5 days = 10 classes/ week	Sensory Physiology Project	1.Olfaction and gestation: Structure of taste buds, mechanism of taste sensation, 2. Neural pathways for taste and smell sensation with centres involved. 3. Taste and smell adaption. Olfactometer, electroolfactogram. 4.Project	23 classes
May	Monday	50 mins 2 classes x 5 days = 10 classes/ week	Biotechnology	1.Recombinant DNA technology, DNA cloning. 2.Cloning vector, restriction endonuclease, cloning of DNA into cloning vectors. 3.DNA Gel electrophoresis. 4.Southern blot and western blot. 5.Colony hybridization. 6.Basic concepts of PCR. 7.Project.	44 classes
June	Monday	50 mins 2 classes x 5 days = 10 classes/ week	Molecular biology & Genetics. Project	Students will be able to: 1.Learn Mendel's experiments, monohybrid crosses 2.principles of dominance, dihybrid crosses, incomplete dominance, Co-dominance. 3.importance, pedigree analysis, karyotyping, human genetic disorders 4.gene incompatibility, (ABO blood group), autosomal (phenyl ketonuria), albinism 5.sex linked (haemophilia, red green colour blindness) diseases 6.Project	44 classes
July	Monday	50 mins 2 classes x 5 days =	Research methodology & Epidemiology.	1.Meaning of research, objectives and significance of research. 2.Research ethics, types of research.	44 classes

		10 classes/ week	Project	3. Scientific methods in research, selecting the research problem, need for research design. 4. Sample design and its different steps, need for basis of selecting a sampling procedure, characteristics of a good sample design, type of data. 5. Project.	
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10/04/2023

Lesson Plan odd Sem
August 2022- January 2023
Dr. Mainul Islam
Assistant Professor
Department of Political Science

Semester	Topics	No of classes	Reference Books
1st sem Honrs. (Unit-II topic 3, Unit III topic 2 and Unit IV topic 2)	Liberty	3	Johari, J.C, Political Theory and Political Thought, Mahajan. B.D. Political Theory
	Equality	3	Johari, J.C, Political Theory and Political Thought, Mahajan. B.D. Political Theory
	Rights	4	Johari, J.C, Political Theory and Political Thought, Mahajan. B.D. Political Theory
	Law	3	Johari, J.C, Political Theory and Political Thought, Mahajan. B.D. Political Theory
	Rise and development of Capitalism and its contradiction	4	Johari, J.C, Political Theory and Political Thought, Mahajan. B.D. Political Theory
	Theory of change: Lenin	2	Johari, J.C, Political Theory and Political Thought, Mahajan. B.D. Political Theory
	Theory of change: Mao	2	Johari, J.C, Political Theory and Political Thought, Mahajan. B.D. Political Theory
1st sem General (Unit-IV)			
	Individualism	3	Johari, J.C, Political Theory and Political Thought, Mahajan. B.D. Political Theory
	Socialism	2	Johari, J.C, Political Theory and Political Thought, Mahajan. B.D. Political Theory
	Welfare state	2	Johari, J.C, Political Theory and Political Thought, Mahajan. B.D. Political Theory
	Democratic Socialism	2	Johari, J.C, Political Theory and Political Thought, Mahajan. B.D. Political Theory
	Dialectical Materialism	3	Johari, J.C, Political Theory and Political Thought, Mahajan. B.D. Political Theory
	Historical Materialism	3	Johari, J.C, Political Theory and Political Thought, Mahajan. B.D.

			Political Theory
	Class and Class Struggle	2	Johari, J.C, Political Theory and Political Thought, Mahajan. B.D. Political Theory
	Revolution	3	Johari, J.C, Political Theory and Political Thought, Mahajan. B.D. Political Theory
	Lenin: Contribution to Imperialism	3	Johari, J.C, Political Theory and Political Thought, Mahajan. B.D. Political Theory
	Contribution to Marxism	2	Johari, J.C, Political Theory and Political Thought, Mahajan. B.D. Political Theory
3rd sem Honrs. (Unit-III topic-3,4,5)			
	Constitutional Provision for STs and SCs	3	Ghai, K.K, Indian Government and Politics, Bhattachrjee, D.C, Indian Government and Politics, Ghosh, Peu, Indian Government and Politics,
	Election commission of India	3	Ghai, K.K, Indian Government and Politics, Bhattachrjee, D.C, Indian Government and Politics, Ghosh, Peu, Indian Government and Politics,
	Electoral reforms	3	Ghai, K.K, Indian Government and Politics, Bhattachrjee, D.C, Indian Government and Politics, Ghosh, Peu, Indian Government and Politics,
	Union Public Service Commission	3	Ghai, K.K, Indian Government and Politics, Bhattachrjee, D.C, Indian Government and Politics, Ghosh, Peu, Indian Government and Politics,
	State Public Service Commission	3	Ghai, K.K, Indian Government and Politics, Bhattachrjee, D.C, Indian Government and Politics, Ghosh, Peu, Indian Government and Politics,
5th sem Honrs. (VI paper, Unit-IV)			
	UK PM vs US President	5	Johari, J.C., New Comparative Government Ghai, K.K., Comparative Government and Politics

	UK cabinet vs. US Cabinet	5	Johari, J.C., New Comparative Government Ghai, K.K., Comparative Government and Politics
	PRC State Council vs. UK Council of Ministers	5	Johari, J.C., New Comparative Government Ghai, K.K., Comparative Government and Politics
	Swiss Federal assembly vs. UK Parliament	5	Johari, J.C., New Comparative Government Ghai, K.K., Comparative Government and Politics
	UK Speaker vs. US speaker	5	Johari, J.C., New Comparative Government Ghai, K.K., Comparative Government and Politics
5th sem General (Unit-I)			
	Nature and Scope of IR	4	Ghai, K.K, International Relations, Ghosh, Peu, International Relations
	State and Non-State Actors	6	Ghai, K.K, International Relations, Ghosh, Peu, International Relations
	Crisis of Territorial State	2	Ghai, K.K, International Relations, Ghosh, Peu, International Relations
	National Power	4	Ghai, K.K, International Relations, Ghosh, Peu, International Relations
FNDC5 (Unit-III and U-II topic 3)			
	Bureaucracy: Max Weber	3	Ghai, K.K, Indian Government and Politics, Fadia, B.L & Kuldeep Fadia, Public Administration
	Bureaucracy: Marx	2	Ghai, K.K, Indian Government and Politics, Fadia, B.L & Kuldeep Fadia, Public Administration
	Public Administration in the age of globalisation	2	Ghai, K.K, Indian Government and Politics, Fadia, B.L & Kuldeep Fadia, Public Administration
	Budget making in	4	Ghai, K.K, Indian Government

	India		and Politics, Fadia, B.L & Kuldeep Fadia, Public Administration
	Lokpal	3	Ghai, K.K, Indian Government and Politics, Fadia, B.L & Kuldeep Fadia, Public Administration
	Lok Ayukta	2	Ghai, K.K, Indian Government and Politics, Fadia, B.L & Kuldeep Fadia, Public Administration
Remedial Classes for both Hours. And General		As per need	


 5/12/27
HEAD
 Department of Political Science,
 HOLY CROSS COLLEGE, AGARTALA

Lesson Plan/ Class Plan February to July, 2023 (Honours)

(Monsoon Session)

Holy Cross College

Department of Political Science

By

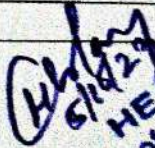
Dr. Mainul Islam

Semester Honours	Paper	No of classes	Reference Books
	POLITICAL THOUGHT		
II	Political Ideas of Utopian socialism	3	
	Scientific socialism	3	O.P. Gauba, Western Political Thought
	Democratic socialism	3	P.G. Das History of Political Thought
	Lenin's contribution to Marxism	2	S.K. Sharma, Western Political Thought
	Lenin's theory of proletarian revolution	3	P.G. Das, History of Political Thought
	Dictatorship of proletariat	3	U.K. Sharma & Urmila Sharma, Western Political Thought
IV	PUBLIC ADMINISTRATION		
		3	Fadia, B.L, Public Administration , Avasthi, Maheshwari, Public Administration
		3	Fadia, B.L, Public Administration , M. Laxmikanth Public Administration
		2	Fadia, B.L, Public Administration , Mohit Bhattacharya, Public Administration
		3	Fadia, B.L, Public Administration , Avasthi, Maheshwari, Public Administration
		3	Fadia, B.L, Public Administration , M. Laxmikanth, Avasthi,

			Maheswari, Public Administration
		3	Fadia, B.L, Public Administration , M. Laxmikanth, Avasthi, Maheswari, Public Administration
		3	Fadia, B.L, Public Administration , Mohit Bhattacharya, Public Administration
VI Paper-VII	International Relations and organisations		
	Nature and scope of International Relations	4	K.K Ghai, International Relations
	Weather a separate branch of academic discipline?	3	K.K Ghai
	Units of International society: the state and non-state units- their role in international politics,	5	K.K Ghai
	Crisis in territorial state	2	K.K Ghai
	Concept of national power-elements	4	K.K Ghai
	Struggle for power	3	K.K Ghai
	Balance of power	3	K.K Ghai
Project (IX)	Different topics	Uncounted Until completion of submission	

Semester Elective	Paper Political Thought	No. of Classes	Reference Books
IV	Comparative Government and Politics		
	Features of the Constitution (CHINA)	4	K.K Ghai, Major Governments Political Systems , D.C. Bhattacharya, Modern Political Constitutions

	General principles of the Constitution	2	Dinesh Arora, Major Governments
	Fundamental rights and duties	3	S.A. Palekar, Comparative Politics & Government, K.K Ghai, Major Governments Political Systems
	National peoples and congress Composition and functions	4	K.K Ghai, Major Governments Political Systems
	Standing committee	3	S.A. Palekar, Comparative Politics & Government, K.K Ghai, Major Governments Political Systems
	State council- composition and functions and role	3	K.K Ghai, Major Governments Political Systems
	Role of the communist party	3	
	Comparative study- Unitary and federal form of government with special reference to U.K, U.S.A, and P.R.C	6	
VI	SOFT STUDY COURSE		
	Indian Constitution & Planning		
	History of constitutional development of India	5	Ghai, K.K, Indian Government and Politics Fadia, B.L, Public Administration
	The Preamble and significance	4	Ghai, K.K, Indian Government and Politics Fadia, B.L, Public Administration
	Fundamental rights: Nature and significance	4	Ghai, K.K, Indian Government and Politics Fadia, B.L, Public Administration
	Directive Principles of State Policy: classification, nature and significance	5	Ghai, K.K, Indian Government and Politics Fadia, B.L, Public Administration
	Fundamental duties and its significance	3	Ghai, K.K, Indian Government and Politics Fadia, B.L, Public Administration


 6/10/20
HEAD
 Department of Political Science
 HOLY CROSS COLLEGE, AGARTALA

Study Plan for Odd Sem (August- January, 2022- 2023)

Department of Political Science

Holy Cross College

1. **October:** Add On Course Project and Wall Magazine.
2. **November:** Inter College (ICFAI University and HCC) drama performance on voter's awareness in collaboration with office of Chief Electoral Office (SDM), Mohanpur on 7th November, 2022.
3. **December:** Picnic, Field Trip and Add on Course Final exam
4. **January:** Completion of syllabus and Remedial Classes

Prepared by

Dr. Mainul Islam

Mainul Islam
5/10/23
HEAD
Department of Political Science,
HOLY CROSS COLLEGE, AGARTALA

Class Plan- odd semester
 July 2022- December 2022
 Mr. Rupak Biswas
 Assistant Professor
 Department of Political Science


Semester	Topics	No of classes	Reference Books
1st sem Honrs. Unit-IV	Social Change	1	Johari, J.C, Political Theory and Political Thought, Mahajan. B.D. Political Theory
	Fabian theory of Evolution	3	Johari, J.C, Political Theory and Political Thought, Mahajan. B.D. Political Theory
	Marxian theory of Revolution	3	Johari, J.C, Political Theory and Political Thought, Mahajan. B.D. Political Theory
	Socialist and Non Socialist revolution	3	Johari, J.C, Political Theory and Political Thought, Mahajan. B.D. Political Theory
	Violence and Revolution	4	Johari, J.C, Political Theory and Political Thought, Mahajan. B.D. Political Theory
	Theory of change: Gandhi	2	Johari, J.C, Political Theory and Political Thought, Mahajan. B.D. Political Theory
3rd sem Honrs			
Unit-1(4) Unit-III(1)	Centre-State Relations	1	Ghai, K.K, Indian Government and Politics, Bhattachrjee, D.C, Indian Government and Politics, Ghosh, Peu, Indian Government and Politics,
	Legislative Relations	3	Ghai, K.K, Indian Government and Politics, Bhattachrjee, D.C, Indian Government and Politics, Ghosh, Peu, Indian Government and Politics,
	Administrative Relations	3	Ghai, K.K, Indian Government and Politics, Bhattachrjee, D.C, Indian Government and Politics, Ghosh, Peu, Indian Government and Politics,
	Financial Relations	3	Ghai, K.K, Indian Government and Politics, Bhattachrjee, D.C, Indian Government and Politics, Ghosh, Peu, Indian Government and Politics,
	Indian Judiciary- Overview	3	Ghai, K.K, Indian Government and Politics, Bhattachrjee, D.C, Indian Government and Politics, Ghosh, Peu, Indian Government

			and Politics,
	Supreme Court	3	Ghai, K.K, Indian Government and Politics, Bhattachrjee, D.C, Indian Government and Politics, Ghosh, Peu, Indian Government and Politics,
	High Court	3	Ghai, K.K, Indian Government and Politics, Bhattachrjee, D.C, Indian Government and Politics, Ghosh, Peu, Indian Government and Politics,
	Lok Pal	2	Indian Polity by Laxmikanth
	Lokayukta	2	Indian Polity by Laxmikanth
	Judicial Activism	2	Indian Polity by Laxmikanth
5th sem Honrs. (VI - paper)			
Unit-3	Political Parties of UK	5	Johari, J.C., New Comparative Government Ghai, K.K., Comparative Government and Politics
	Political Parties of USA	5	Johari, J.C., New Comparative Government Ghai, K.K., Comparative Government and Politics
	Political Parties of PRC	5	Johari, J.C., New Comparative Government Ghai, K.K., Comparative Government and Politics
	Interest group-UK	5	Johari, J.C., New Comparative Government Ghai, K.K., Comparative Government and Politics
	Interest group-USA	5	Johari, J.C., New Comparative Government Ghai, K.K., Comparative Government and Politics
	Rights and Duties of UK, USA and PRC-A Comparative study	8	Johari, J.C., New Comparative Government Ghai, K.K., Comparative Government and Politics
	Judiciary in UK,USA and PRC	8	Johari, J.C., New Comparative Government Ghai, K.K., Comparative Government and Politics
3rd sem General			
Unit-3	Union and State	1	Ghai, K.K, Indian Government

	Executive		and Politics, Bhattachrjee, D.C, Indian Government and Politics, Ghosh, Peu, Indian Government and Politics,
	President	3	Ghai, K.K, Indian Government and Politics, Bhattachrjee, D.C, Indian Government and Politics, Ghosh, Peu, Indian Government and Politics,
	Prime Minister	3	Ghai, K.K, Indian Government and Politics, Bhattachrjee, D.C, Indian Government and Politics, Ghosh, Peu, Indian Government and Politics,
	Governor		Ghai, K.K, Indian Government and Politics, Bhattachrjee, D.C, Indian Government and Politics, Ghosh, Peu, Indian Government and Politics,
	Chief Minister		Ghai, K.K, Indian Government and Politics, Bhattachrjee, D.C, Indian Government and Politics, Ghosh, Peu, Indian Government and Politics,
	Council of Minister(Union and state)	3	Ghai, K.K, Indian Government and Politics, Bhattachrjee, D.C, Indian Government and Politics, Ghosh, Peu, Indian Government and Politics,
	Union and state legislature	3	Ghai, K.K, Indian Government and Politics, Bhattachrjee, D.C, Indian Government and Politics, Ghosh, Peu, Indian Government and Politics,
	Law making Process	3	Ghai, K.K, Indian Government and Politics, Bhattachrjee, D.C, Indian Government and Politics, Ghosh, Peu, Indian Government and Politics,
	Nature of parliamentary privileges	3	Ghai, K.K, Indian Government and Politics, Bhattachrjee, D.C, Indian Government and Politics, Ghosh, Peu, Indian Government and Politics,
	FNDC5		
Unit 2 (2) Unit 4	Principles of formal organisation	3	Ghai, K.K, Indian Government and Politics, Fadia, B.L & Kuldeep Fadia, Public Administration

	Hierarchy	2	Ghai, K.K, Indian Government and Politics, Fadia, B.L & Kuldeep Fadia, Public Administration
	Span of Control		Ghai, K.K, Indian Government and Politics, Fadia, B.L & Kuldeep Fadia, Public Administration
	Unity of command	4	Ghai, K.K, Indian Government and Politics, Fadia, B.L & Kuldeep Fadia, Public Administration
	Centralization	3	Ghai, K.K, Indian Government and Politics, Fadia, B.L & Kuldeep Fadia, Public Administration
	Decentralization	2	Ghai, K.K, Indian Government and Politics, Fadia, B.L & Kuldeep Fadia, Public Administration
	Lines, staffs and Auxiliary Agencies	3	Ghai, K.K, Indian Government and Politics, Fadia, B.L & Kuldeep Fadia, Public Administration
	District Administration	4	Ghai, K.K, Indian Government and Politics, Fadia, B.L & Kuldeep Fadia, Public Administration
	Block Administration	4	Ghai, K.K, Indian Government and Politics, Fadia, B.L & Kuldeep Fadia, Public Administration
	73rd and 74 th Amendment	4	Ghai, K.K, Indian Government and Politics, Fadia, B.L & Kuldeep Fadia, Public Administration
	Planning and Development- Rural and Urban	4	Ghai, K.K, Indian Government and Politics, Fadia, B.L & Kuldeep Fadia, Public Administration

PLSG5 Unit-IV			
	Comparison between UNO and League of Nations	3	Ghai, K.K, International Relations, Ghosh, Peu, International Relations
	Purpose and principles of UNO	3	Ghai, K.K, International Relations, Ghosh, Peu, International Relations
	UN Charter	3	Ghai, K.K, International Relations, Ghosh, Peu, International Relations
	Principal and organs of UNO	3	Ghai, K.K, International Relations, Ghosh, Peu, International Relations
	SAARC	3	Ghai, K.K, International Relations, Ghosh, Peu, International Relations
	OPEC	3	Ghai, K.K, International Relations, Ghosh, Peu, International Relations
	WTO	3	Ghai, K.K, International Relations, Ghosh, Peu, International Relations
	IMF	3	Ghai, K.K, International Relations, Ghosh, Peu, International Relations
Remedial Classes (Honrs. And General)		As per the need	

For

HEAD
 Department of Political Science,
 HOLY CROSS COLLEGE, AGARTALA

Class Plan of Rajesh Kumar Nath
Department of Political Science

2nd Semester Honors (Paper-2, Unit-2)

Topic	Sub Topic	No of Classes Required	References
Jean Bodin	Concept of Sovereignty	2	1. History of Political Thought- P.G. Das 2. Western Political Thought- O. P. Gauba
Jean Bodin	The theoretical foundation of Nation State	2	1. History of Political Thought- P.G. Das 2. Western Political Thought- O. P. Gauba
Thomas Hobbes	The Founder of the Materialistic Politics	3	1. History of Political Thought- P.G. Das 2. Western Political Thought- O. P. Gauba 3. A History of political Thought-S. Mukherjee & S. Ramaswamy
John Locke	Theorist of Glorious Revolution	2	1. History of Political Thought- P.G. Das 2. A History of political Thought-S. Mukherjee & S. Ramaswamy
John Locke	Socio-Political Elements of his Political Thought	3	1. History of Political Thought- P.G. Das 2. Western Political Thought- O. P. Gauba 3. A History of political Thought-S. Mukherjee & S. Ramaswamy
John Locke	Theories of Rights	2	1. Western Political Thought- O. P. Gauba
John Locke	Resistance and Consent	2	1. History of Political Thought- P.G. Das

2nd Semester General (Paper- 2, Unit-4)

Topic	Sub Topic	No of Classes Required	References
Gandhi	Non-Violence	2	1. Indian Political Thought- K.S. Padhy 2. Modern Indian

			Political Thought- V.P. Varma
Gandhi	Styagraha	2	1. Indian Political Thought- K.S. Padhy 2. Modern Indian Political Thought- V.P. Varma
Gandhi	Sarvodaya	2	1. Indian Political Thought- K.S. Padhy 2. Modern Indian Political Thought- V.P. Varma
M. N. Roy	New Humanism	3	1. Indian Political Thought- K.S. Padhy 2. Modern Indian Political Thought- V.P. Varma
Dr. B. R. Ambedkar	Social Justice	1	1. Indian Political Thought- K.S. Padhy 2. Modern Indian Political Thought- V.P. Varma
Dr. B. R. Ambedkar	Political Ideas	2	1. Indian Political Thought- K.S. Padhy 2. Modern Indian Political Thought- V.P. Varma

4th Semester Honors (Paper-4, Unit- 2 & 4)

Topic	Sub Topic	No of Classes Required	References
Principles of Formal Organisation	Hierarchy	2	1. Public Administration- M. Laxmikant 2. Public Administration- B.L. Fadia & K. Fadia
Principles of Formal Organisation	Span of Control	2	1. Public Administration- M. Laxmikant 2. Public Administration- B.L. Fadia & K. Fadia
Principles of Formal	Unity of Command	2	1. Public

Organisation			Administration- M. Laxmikant 2. Public Administration- B.L. Fadia & K. Fadia
Principles of Formal Organisation	Centralisation and Decentralisation	4	1. Public Administration- M. Laxmikant 2. Public Administration- B.L. Fadia & K. Fadia
Principles of Formal Organisation	Staff and Line	3	1. Public Administration- M. Laxmikant 2. Public Administration- B.L. Fadia & K. Fadia
Lokpal	Lokpal	3	1. Public Administration- B.L. Fadia & K. Fadia
Lokayukta	Lokayukta	2	1. Public Administration- B.L. Fadia & K. Fadia

4th Semester General (Paper-4, Unit-3)

Topic	Sub Topic	No of Classes Required	References
Frach Republic (5 th)	Salient Features of The Constitution of 5 th Republic	2	1. Major Governments- K.K.Ghai 2. Modern Political Constitutions- D.C. Bhattacharya
Frach Republic (5 th)	President- Election	2	1. Major Governments- K.K.Ghai 2. Modern Political Constitutions- D.C. Bhattacharya
Frach Republic (5 th)	President- Power and Role	3	1. Major Governments- K.K.Ghai 2. Modern Political Constitutions- D.C.

			Bhattacharya
Frach Republic (5 th)	Prime Minister- Function and Role	2	1. Major Governments- K.K.Ghai 2. Modern Political Constitutions- D.C. Bhattacharya
Frach Republic (5 th)	Council of Ministers- Function and Role	1	1. Major Governments- K.K.Ghai 2. Modern Political Constitutions- D.C. Bhattacharya
Frach Republic (5 th)	Parliament- Composition	4	1. Major Governments- K.K.Ghai 2. Modern Political Constitutions- D.C. Bhattacharya
Frach Republic (5 th)	Parliament- Functions	2	1. Major Governments- K.K.Ghai 2. Modern Political Constitutions- D.C. Bhattacharya

6th Semester Honors (Paper-7, Unit-2)

Topic	Sub Topic	No of Classes Required	References
Foreign Policy	Definition of Foreign Policy	1	1. International Relations- K.K. Ghai 1. International Relations- V. K. Malhotra
	Various Factors in Shaping of foreign policy	4	1. International Relations- K.K. Ghai 1. International Relations- V. K. Malhotra
National Interest	Role of National Interest in the formation of foreign Policy of a country	4	1. International Relations- K.K. Ghai 1. International Relations- V. K. Malhotra

Instrument and Techniques of Sate Interaction	Propaganda	4	1. International Relations Today- Aneek Chatterjee
Instrument and Techniques of Sate Interaction	Diplomacy	4	1. International Relations- K.K. Ghai 1. International Relations- V. K. Malhotra

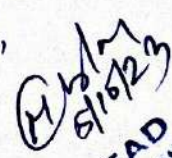
• **6th Semester Honors (Paper-8, Unit-4)**

Topic	Sub Topic	No of Classes Required	References
Military and Politics	Condition and Mode of Intervention	4	1. Political Sociology- D.C.Bhattacharya 2. Political Sociology- A.K. Mukherjee
Types of States	Anarchy	2	1. Political Sociology- D.C.Bhattacharya 2. Political Sociology- K.K. Ghai
Types of States	Dictatorship	2	1. Political Sociology- D.C.Bhattacharya 2. Political Sociology- K.K. Ghai
Types of States	Democracy	2	1. Political Sociology- D.C.Bhattacharya 2. Political Sociology- K.K. Ghai

Soft Study-1- Indian Constitution and Planning (SS1, Unit-4)

Topic	Sub Topic	No of Classes Required	References
Development Planning	Concept	1	1. Indian Government and Politics- B.L.Fadia 2. Indian Economy- Datt and Mahajan
Development Planning	Problems and Prospects	1	1. Indian Government and Politics- B.L.Fadia 2. Indian Economy- Datt and Mahajan
Participatory Development	Concept	1	1. Indian Government and Politics- B.L.Fadia 2. Indian Economy-

			Datt and Mahajan
Participatory Development	Significance	1	1. Indian Government and Politics- B.L.Fadia 2. Indian Economy- Datt and Mahajan
Different Agencies of Planning	State Government	1	1. Indian Government and Politics- B.L.Fadia 2. Indian Economy- Datt and Mahajan
Different Agencies of Planning	District	1	1. Indian Government and Politics- B.L.Fadia 2. Indian Economy- Datt and Mahajan
Different Agencies of Planning	Local Bodies	1	1. Indian Government and Politics- B.L.Fadia 2. Indian Economy- Datt and Mahajan

For,

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Class Plan – Even Semester

-Mrs. Sharmistha Rakshit, Asst. Prof. Political Science

Semester & paper	Topic	Number of classes required	Reference
II Western Political Thought	Features of Greek Political Institutions	2	History of Political Thought-P. G. Das
	Plato's Theory of Justice	2	History of Political Thought-P. G. Das
	Plato's Communism vs. Modern Communism	2	Western Political Thought – O. P Gauba
	Aristotle's Theory of State	2	Western Political Thought – S. K Sharma & Urmila Sharma Volume 1
	Aristotle's Theory of Slavery	2	Western Political Thought – S. K Sharma & Urmila Sharma Volume 1
	Aristotle's Theory of Revolution	2	Western Political Thought – S. K Sharma & Urmila Sharma Volume 1
	Roman Theory of Law	2	History of Political Thought-P. G. Das
	Features of Medieval Political Thought	2	History of Political Thought-P. G. Das
	Revision, remedial classes and class tests	8	
	IV Public Administration	Max Weber's Theory of Bureaucracy	2
Karl Marx's Theory of Bureaucracy		2	Public Administration-Mohit Bhattacharya
Comparative Administration		2	Public Administration – Avasthi & Maheshwari
Development Administration		2	Public Administration – Avasthi & Maheshwari
Fred Riggs' Model of Comparative Administration		2	Public Administration-Mohit Bhattacharya
Basic principles of Socialist Management		2	Jana Prashashan (Bengali)- Pran

Class Plan – Even Semester

-Mrs. Sharmistha Rakshit, Asst. Prof. Political Science

			Gobindo Das
	Lenin's concept of Building Socialism	2	Public Administration- Mohit Bhattacharya
	Capitalist Management vs. Socialist Management	2	Jana Prashashan (Bengali)- Pran Gobindo Das
	Public Administration in the age of Globalisation	2	Public Administration- Mohit Bhattacharya
	Revision, remedial classes and class tests	8	
VI(Paper VII), International Relations	Post-Cold War Politics	2	International Relations –Peu Ghosh & International Relations- K.K. Ghai
	Imperialism	2	International Relations- K.K. Ghai
	Neo Colonialism	2	International Relations- K.K. Ghai
	Globalisation	2	International Relations –Peu Ghosh
	Third World Countries and their Problems	2	International Relations –Peu Ghosh
	Non Alignment Movement	2	International Relations –Peu Ghosh
	Universal Declaration of Human Rights	3	An Introduction to Political Theory – O.P Gauba and a Tripura University material
	Group Presentation	3	
	Revision	6	
VI(Paper VIII) Political Sociology	Political Participation	2	Political Sociology- Pradip Basu
	Electoral Behaviour	2	Political Sociology- D.C Bhattacharya
	Revision and Class test	3	
VI(Project)	Supervision	10	

Class Plan – Even Semester

-Mrs. Sharmistha Rakshit, Asst. Prof. Political Science

Semester (Elective)	Topic	Number of classes required	Reference
II Political Thought	Ram Mohan Roy- Social Reforms	1	Indian Political Thought- K.S Padhey
	Ram Mohan Roy- Liberalism	1	Indian Political Thought- K.S Padhey
	Swami Vivekananda- Nationalism	1	Political Theory and Socio Political Philosophy- J.C Johari & MPSE -004(IGNOU material)
	Swami Vivekananda- Socialism	1	Political Theory and Socio Political Philosophy- J.C Johari
	Bankim Chandra Chatterjee- Nationalism	1	MPSE -004(IGNOU material) & Internet material
	Bankim Chandra Chatterjee- Equality	1	English translation of Bankim's Samya ny Bibek Debroy
	Revision and Class test	6	
IV Comparative Government and Politics	Comparison b/w US and French President	1	Modern Political Constitutions- D.C. Bhattacharya
	Comparison b/w US and UK Cabinet	1	Modern Political Constitutions- D.C. Bhattacharya
	Comparison b/w US President and UK Prime Minister	1	Modern Political Constitutions- D.C. Bhattacharya
	Comparison b/w US Speaker and UK Speaker	1	Modern Political Constitutions- D.C. Bhattacharya
	Comparison b/w unitary and federal forms of Governments in UK, USA and PRC	4	Major Governments- K.K Ghai

Class Plan – Even Semester

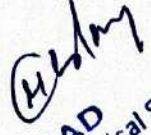
-Mrs. Sharmistha Rakshit, Asst. Prof. Political Science

SOFT STUDY :Indian Constitution and Planning

Topic	Number of classes required	Reference
History of Constitutional Development in India	3	A journey across the Indian Constitution- Amal Kumar Mukhopadhyay
Preamble of Indian Constitution	2	Indian Government and Politics- K.K. Ghai
Revision and Class tests	3	

Add on Course: Understanding Human Rights and its Significance

Topic	Number of classes required	Reference
The Role of UN organs in Protection of Human Rights	3	Human Rights- Dr. U Chandra
The role of UN treaty bodies in the protection Human Rights	3	Human Rights- Dr. U Chandra
Human Rights Watch and protection of Human Rights	1	Human Rights- Dr. U Chandra
Project Presentation and test	3	Human Rights- Dr. U Chandra


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Lesson Plan/ Class Plan September 2022- February, 2023 PLSH (Honours)

(Winter Session) Odd Semester

Holy Cross College

Department of Political Science

By

Dr. Rajeshree Debbarma

Semester	Topics	No of classes	Reference Books
	POLITICAL THEORY		
I(Unit 1)	Interaction with the students and brief overview on the syllabus	1	
	Introduction to Feminism	1	J.C Johori , Political Theory and Socio-political Philosophy
	Views on Feminism and its Waves	2	J.C Johori , Political Theory and Socio-political Philosophy
	Basic Tenets of Feminism	2	O.P Gauba, Political Thought
	Recent Trends of Feminism	1	O.P Gauba, Political Thought
	Theories of Introduction in General overview	1	U.K. Sharma & Urmila Sharma, Western Political Thought
	Origin, nature and Functions,	2	P.G.Das& S.K Padhay
	Idealist Theory	2	P.G. Das, V.D Mahajan Political Theory
	Liberal Theory	1	D.C Bhattacharya, Political Theory, V.D Mahajan Political Theory
	Neo- Liberal Theory	2	J.C Johori , Political Theory and Socio-political Philosophy
	Marxist Theory	2	D.C Bhattacharya, Political Theory
	Gandhian Theory	2	D.C Bhattacharya, Political Theory
	Gandhian Theory of Sarvodaya	2	D.C Bhattacharya, Political Theory,
	Group Discussion, Interaction & Class Assessment /Assignment	5	
	TOTAL	26 Classes	
III	Indian, Government and		

	Politics		
	An overview to Indian government System and Politics	1	
	Fundamental Rights along with Articles (12 to 32)	4	M. Laxmikanth and K.K Ghai, Indian Government & Politics
	Framing of the Indian Constitution	2	M. Laxmikanth and K.K Ghai, Indian Government & Politics
	Role of Constituent Assembly	2	M. Laxmikanth and K.K Ghai, Indian Government & Politics
	Preamble to the Indian Constitution	2	M. Laxmikanth and K.K Ghai, Indian Government & Politics
	Fundamental Duties	2	M. Laxmikanth and K.K Ghai, Indian Government & Politics
	Directive Principles of State Policy	1	M. Laxmikanth and K.K Ghai, Indian Government & Politics
	Nature of Indian Federation	2	M. Laxmikanth and K.K Ghai, Indian Government & Politics
	Amendment to the Constitution	3	M. Laxmikanth and K.K Ghai, Indian Government & Politics
	Centre State Relations explanation in brief: Its Administrative, Legislative & Financial Relations	6	M. Laxmikanth and K.K Ghai, Indian Government & Politics
	Group Discussion, Class Test, Interaction & Class Assessment /Assignment	5	
	TOTAL	30 Classes	
V/ Paper VI	Comparative Government & Politics		
	Meaning of Comparative Politics and overview to the Topic and its Relevance	2	Major Governments by K.K Ghai & Dinesh Arora
	Scopes of Comparative Politics	2	Major Governments by K.K Ghai & Dinesh Arora
	Purpose & methods of Comparative Politics	2	Major Governments by K.K Ghai & Dinesh Arora
	Distinction between comparative Government & Politics	3	Major Governments by K.K Ghai
	General introduction on importance of Parliamentary Sovereignty of UK	3	Major Governments by K.K Ghai & Dinesh Arora, Political Systems, D.C.


			Bhattacharya, Modern Political Constitutions
	Nature of Authoritarian & Liberal	2	Major Governments by K.K Ghai & Dinesh Arora
	Political Systems of Liberal & Democratic Country	2	Major Governments by K.K Ghai & Dinesh Arora
	Separation of Powers	2	Major Governments by K.K Ghai & Dinesh Arora
	Checks & Balances	1	Major Governments by K.K Ghai
	Explanation on Democratic Centralism	2	Major Governments by K.K Ghai
	Methods of Direct Democracy	1	Major Governments by K.K Ghai
Unit 2, II	Parliamentary and Presidential System	2	Major Governments by K.K Ghai
	Comparative study between of British and American Political System	2	Major Governments by K.K Ghai & Dinesh Arora
	Class Assignment/ Discussion	3	Major Governments by K.K Ghai
	Peoples Republic of China and its Position	2	Major Governments by K.K Ghai & Dinesh Arora
	Total	31classes	

PLSG (GENERAL) & FNDC

Semester	Topics Political Theory	No. of Classes	Reference Books
I	Sovereignty and introduction to the syllabus	2	O.P .Gauba, An introduction to Political Theory, P.G. Das, V.D Mahajan Political Theory
	Kinds of Sovereignty	2	P.G. Das, V.D Mahajan Political Theory
	Monistic Theory	2	P.G. Das, V.D Mahajan Political Theory
	Pluralistic Theories	2	O.P .Gauba, An introduction to Political Theory, V.D Mahajan
	Popular Sovereignty	2	O.P .Gauba, An introduction to Political Theory, P.G. Das, V.D Mahajan Political Theory
	Globalisation	2	O.P .Gauba, An introduction to Political Theory, P.G. Das, V.D Mahajan Political Theory
	Some representative concepts:	2	P.G. Das, V.D Mahajan

	Meaning and Features		Political Theory
	Democracy : its meaning & nature	2	O.P .Gauba, An introduction to Political Theory, P.G. Das, V.D Mahajan Political Theory
	Nationalism: Its meaning & nature	2	P.G. Das, V.D Mahajan Political Theory
	Internationalism: Its meaning	2	P.G. Das History of Political Thought
	Discussion, Interaction & Assessment/ Assignment	3	
	Total	23 Classes	
III	Indian Government and Politics		
	Introduction to the Indian Constitution	1	K.K Ghai, India Government and Politics
	Nature of Indian Political Structures	2	K.K Ghai, Indian Government and Politics
	Discussion on Nature of Indian Federal Structures	2	Laxmikant, Indian Polity
	Discussion on Nature of Indian Unitarian Structures	2	K.K Ghai, Indian Government and Politics
	Amendment to the Constitution an overview	2	K.K Ghai, Indian Government and Politics
	Discussion on Administrative Relations	2	K.K Ghai, Indian Government and Politics
	Explanation on Legislative Relations	2	K.K Ghai, Indian Government and Politics Laxmikant, Indian Polity,
	Briefly discussion on Financial Relations	2	K.K Ghai, Indian Government and Politics, Laxmikant, Indian Polity
	Recent Trends in Centre state Relations	2	K.K Ghai, Indian Government and Politics, Laxmikant, Indian Polity
	Discussion, Interaction & Assessment /Assignment	3 to 5	
	TOTAL	22Classes	
VI	FNDC		
	PUBLIC ADMINISTRATION		
	Meaning & nature of Public Administration	2	M. Laxmikanth, Avasthi, Maheswari, Public Administration
	Scope of Public Administration	2	Public Administration, Mohit Bhattacharya
	Significance of Public Administration	2	Public Administration, Mohit Bhattacharya
	New Public Administration in brief	2	M. Laxmikanth, Avasthi, Maheswari, Public Administration

	Explanation on Comparative Public Administration	2	M. Laxmikanth, Avasthi, Maheswari, Public Administration
	Development Administration in Brief	2	M. Laxmikanth, Avasthi, Maheswari, Public Administration
	MCQ Discussion, Test & Assessment/Remedial	3	
		15	


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Study Plan & Lesson Plan of Dr. Uttam Chakraborty

Study plan

(Monsoon session)

Semester (HONS. and ELECTIVE)	PAPER	Topics allotted to discuss in the class
5 th (hons)	ENGH-501 (5 th)	i. Phonetics ii. Prosody
3 rd (Elect)	ENGG3 (3dr)	i. Phonetics ii. Prosody
1 st (FNDC) Sec. C	FNDC1 (1 st)	Unit iii: Grammar
1 st (FNDC) Sec. A	FNDC1 (1 st)	Unit I & 2: Prose & Poetry
MA EN-702c	EN-701C	The Elizabethan and Jacobean Age
MA EN-70c	EN-705C	Introduction to the Study of Literature and Culture-I

Class Plan

(Monsoon session)

SEMESTER (Hons and Elective)	PAPER	TOPICS	NO. OF CLASSES ALLOTTED	METHODS APPLIED
BA 5 th (hons)	5 th	i. Phonetics ii. Prosody	16	Lectures & discussion, Board work & interaction, Language Lab practices, Transmission of Study Materials, etc.
BA 3 rd (elective)	3 rd	i. Phonetics ii. Prosody	12	Lectures & discussion, Board work & interaction, Language Lab practices, Transmission of Study Materials, etc.
BA 1 st (FNDC)	1 st	Grammar	11	Discussion, board works, suggestions etc.
BA 1 st (FNDC)	1 st	Prose & Poetry	13	Discussion, board works, suggestions etc.

MA EN-702c	EN-701C	The Elizabethan and Jacobean Age	30	Lectures & discussion, Board work & interaction, Language Lab practices, Transmission of Study Materials, etc. PPT presentations
MA EN-70c	EN-705C	Introduction to the Study of Literature and Culture-I	30	Lectures & discussion, Board work & interaction, Language Lab practices, Transmission of Study Materials, etc. PPT presentations

**Study plan
(Winter session)**

Semester (HONS. and ELECTIVE)	PAPER	Topics allotted to discuss in the class
BA 6 th (hons)	ENGH-601 (6 th)	i. History Indian English Literature
BA 6 th (hons)	ENGH-602 (7 th)	i. Coleridge's <i>Biographia Literaria</i> ii. Unseen Summary and Critical Appreciation Writings
BA 4 th (hons)	ENGH4 (4 th)	i. British Romantic and Victorian Poetry ii. Unseen Summary and Critical Analysis writings
BSc & B Com 2nd (FNDC2) Sec. C	FNDC2 (2 nd)	Unit iii: Grammar
MA EN-801c	EN-801C	Romantic and Victorian Poetry
MA EN-805c	EN-805C	Introduction to the Study of Literature and Culture-II

Class Plan
(Winter session)

SEMESTER (Hons and Elective)	PAPER	TOPICS	NO. OF CLASSES ALLOTTED	METHODS APPLIED
BA 6 th (hons)	ENGH- 601 (6 th)	i. History Indian English Literature	16	Lectures & discussion, Board work & interaction, Language Lab practices, Transmission of Study Materials, etc.
BA 6 th (hons)	ENGH- 602 (7 th)	i. Coleridge's <i>Biographia Literaria</i> ii. Unseen Summary and Critical Appreciation Writings	12	Lectures & discussion, Board work & interaction, Language Lab practices, Transmission of Study Materials, etc.
BA 4 th (hons)	ENGH4 (4 th)	i. British Romantic and Victorian Poetry ii. Unseen Summary and Critical Analysis writings	11	Discussion, board works, suggestions etc.
BSc & B Com 2nd (FNDC2) Sec. C	FNDC2 (2 nd)	Unit iii: Grammar	13	Discussion, board works, suggestions etc.
MA EN- 801c	EN- 801C	Romantic and Victorian Poetry	30	Lectures & discussion, Board work & interaction, Language Lab practices, Transmission of Study Materials, etc. PPT presentations
MA EN- 805c	EN- 805C	Introduction to the Study of Literature and Culture- II	30	Lectures & discussion, Board work & interaction, Language Lab practices, Transmission of Study Materials, etc. PPT presentations

Study Plan & Lesson Plan of Dr. Moumita Dey

Monsoon Session STUDY PLAN

Semester	Paper	Topics
BA 1 st	Eng Hons , Paper 1	Unit III: Tragedy, Novels
BA 5 th	Eng Hons, Paper 5	Unit IV: Linguistics
MA 1 st	Paper III	Unit II: School for Scandal Unit IV: The Deserted Village
MA 1 st	Paper IV	Unit II: Robinson Crusoe
MA 1 st	Paper V	Unit III: Gray's Elegy Unit IV: Tess of the Urbervilles

CLASS PLAN

Semester	Paper	Topic Allotted	Hours per topic	Methods used
BA 1 st	Eng Hons, Paper 1	Unit III: Tragedy, Novels	16	Lecture via PPT
BA 5 th	Eng Hons, Paper 5	Unit IV: Linguistics	24	Lecture & board work
MA 1 st	Paper III	Unit II: School for Scandal Unit IV: The Deserted Village	10	Lecture via PPT
MA 1 st	Paper IV	Unit II: Robinson Crusoe	6	Lecture via PPT
MA 1 st	Paper V	Unit III: Gray's Elegy Unit IV: Tess of the Urbervilles	10	Lecture via PPT

Winter Session

STUDY PLAN

Semester	Paper	Topics
BA 4 th	Eng Hons , Paper 4	Unit III: The Mayor of Casterbridge
BA 6 th	Eng Hons, Paper 7 Eng Hons, Paper 8	Unit II: Guide Unit I: Aristotle
MA 2 nd	Paper 802C	Unit II: Mansfield Park
MA 2 nd	Paper 804C	Unit II: Portrait of a Man as a Young Artist Unit III: A Doll's House
MA 2 nd	Paper 803C	Unit IV: Dance Like a Man

CLASS PLAN

Semester	Paper	Topic Allotted	Hours per topic	Methods used
BA 1 st	Eng Hons , Paper 4	Unit III: The Mayor of Casterbridge	16	Lecture & board work
BA 5 th	Eng Hons, Paper 7 Eng Hons, Paper 8	Unit II: Guide Unit I: Aristotle	24	Lecture & board work
MA 1 st	Paper 802C	Unit II: Mansfield Park	10	Lecture via PPT
MA 1 st	Paper 804C	Unit II: Portrait of a Man as a Young Artist Unit III: A Doll's House	6	Lecture via PPT
MA 1 st	Paper 803C	Unit IV: Dance Like a Man	10	Lecture via PPT

Study Plan & Lesson Plan of Barnita Majumder

Study plan

(Monsoon session)

Semester(HONS and ELECTIVE)	PAPER	Topics allotted to discuss in the class
1 st (hons)	1 st	History of English Literature
5 th (hons)	5 th 6 th	Rhetoric Phonetics

Class Plan

(Monsoon session)

SEMESTER(Hons and Elective)	PAPER	TOPICS	NO.OF CLASSES ALLOTTED	METHODS APPLIED

1 ST (hons)	1 st	Hist. of Eng. Literature	17	Descriptive lectures, Assignments, Presentations.
3 rd (hons)	3 rd	Poem	12	Power point presentation, lectures, class test, presentations, group discussions
5 th (hons)	5 th 6 th	Rhetoric Phonetics	17	Board work, Practice session through solving examples, Vocal work
3 rd (elective)	3 rd	Rhetoric Phonetics	15	Board work, Practice session through solving examples, Vocal work

Study Plan
(Winter Session)

Semester(HONS and ELECTIVE)	Paper	Topics allotted to discuss in the class
2 nd semester(HONS)	2 nd	History of English Literature
6 th semester(HONS)	7 th 8 th	Post office by Rabindranath Tagore The Collector's wife by Mitra Phukan Literary Theories
4 th semester(Elective)	4 th paper	Novel

Class Plan
(Winter session)

SEMESTER (HONS AND ELECTIVE)	PAPER	TOPICS ALLOTTED	NO. OF CLASSES ALLOTTED	METHODS APPLIED
2 ND (Hons)	2 ND	Modern period (History of English Literature)	15	Descriptive lectures, Assignments, Presentations.

6 th (Hons)	7 th 8 th	Post office by Rabindranath Tagore The Collector's wife by Mitra Phukan Literary Theories	18	Power point presentation, lectures, class test, presentations, group discussions
4 th (Elective)	4 th	Mayor of Casterbridge	12	Lecture series, Assignments.

Study Plan & Lesson Plan of Lalita Reang

STUDY PLAN

Monsoon session

Study plan

(Monsoon session)

Semester(HONS and ELECTIVE)	PAPER	Topics allotted to discuss in the class
1 st (hons)	1	Loving in Truth by Philip Sidney Renouncing of Love by Thomas Wyatt
1 st (General)	1	Dejection: An Ode Ode to a Nightingale Pride and Prejudice
1 st (FNDC)	1	The Listeners The Road Not Taken The Inchcape Rock Ghosts How much land does a man Require An Astrologer's Day
3 rd (General)	3	Lyric

CLASS PLAN

NAME OF THE SEMESTER	PAPER	TOPICS ALLOTTED TO DISCUSS IN THE CLASS	Classes allotted	Methods applied
First	1 st (Hons)	Literary Types- Lyric and Sonnet	36 classes	Lecture, Interactive discussion, class tests , tutorials.
First	1 st (Gen)	Poetry- Tintern Abbey, Dejection: an Ode. Novel- Pride and Prejudice	24 classes	Lecture, Interactive discussion, quiz, tutorials, open book test
Third	3 rd (Gen)	Literary Types- Lyric	36 classes	Lecture, Interactive discussion, class tests , assignments
First	FNDC 1	Short Stories: The Refugee, Shooting an Elephant, Ghost, How Much Land Does a Man Require, Punishment, An Astrologer's Day.	12 classes	Lecture, Interactive discussion, oral test, assignments
Fifth	5 th (Gen)	Sonnets- "Let me not to the marriage", "On His Blindness" "Porphyria's Lover"	12 classes	Lecture, Interactive discussion, oral tests, assignments

Study Plan

(Winter Session)

Semester	paper	Topics Allotted
2 nd (Hons)	2	Arms and the Man Sonnets
2 nd (Gen)	2	Short stories Essays
2 nd (FNDC)	2	Short Stories Poems
4 th (Hons)	4	Novel Romantic Poems
4 th (Gen)	4	Short Stories
6 th (Hons)	7,8	Short Stories, Literary Criticism and Theory

Class Plan
(Winter Session)

SEMESTER	PAPER	TOPICS DISCUSSED IN CLASS	METHODS APPLIED
2 ND (HONS)	2	<ol style="list-style-type: none"> 1. Arms and the Man 2. Shall I Compare Thee to a Summer's Day 3. Let me not to the Marriage of True Minds 	Lecture, Interactive session, tests
2 nd (Gen)	2	<ol style="list-style-type: none"> 1. The Fly 2. The Diamond Necklace 3. Shakespeare's Sister 4. India Again 	Class Discussion Interactive Session, assignments, tests
2 nd (FNDC)	2	<ol style="list-style-type: none"> 1. The Bet 2. Salvation 3. The Adventure of the Blue Carbuncle 4. Ode on a Grecian Urn 5. Ode to the West Wind 6. The Last Ride Together 	Presentations, explanation, Recitation, tests
4 th (Hons)	4	<ol style="list-style-type: none"> 1. Ode to a Nightingale 2. Dejection: An Ode 3. Pride and Prejudice 	Presentation, Interactive Discussion, Movie and test
4 th (Gen)	4	<ol style="list-style-type: none"> 1. When Mr. Pirzada Came to Dine 2. Love Across the Salt Desert 	Explanation, Discussion
6 th (Hons)	7	<ol style="list-style-type: none"> 1. Love Across the Salt Desert 2. When Mr. Pirzada Came to Dine 	Explanation, Background Discussion, Interactive Session
6 th (Hons)	8	William Wordsworth (Literary Theory and Criticism)	Interactive Discussion, assignments, tests

Study Plan & Lesson Plan of Sangthanzuala Sailo

Study plan
(Monson session)

Semester (HONS and ELECTIVE)	PAPER	Topics allotted to discuss in the class
1 st (Hons)	1 st	<ol style="list-style-type: none"> 1) History of English Literature 2) The Good Morrow – John Donne

1 st (FDNC)	1 st	Literature Section
3 rd (Hons)	3 rd	The Rape of The Lock – Alexander Pope
5 th (Gen)	5 th	As You Like It by William Shakespeare

Class Plan
(Monsoon session)

SEMESTER(Hons and Elective)	PAPER	TOPICS	NO.OF CLASSES ALLOTTED	METHODS APPLIED
1 ST (Hons)	1 st	1) Hist. of Eng. Literature 2) The Good Morrow – John Donne	12	Descriptive lectures, Assignments, Presentations.
1 st (FDCN)	1 st	Poetry section	4	Lecture cum demonstration method, Visual presentation, Discussion method
3 rd (Hons)	3 rd	Poem: The Rape of The Lock by Alexander Pope	20	Power point presentation, lectures, class test, presentations, group discussions
5 th (Gen)	5 th	Play: As You Like It by William Shakespeare	8	Lecture method, Visual presentation, Discussion method

Study Plan
(Winter Session)

Semester (HONS and ELECTIVE)	Paper	Topics allotted to discuss in the class
1 st semester (HONS)	2 nd Paper	European Classical Literature: The Pot of Gold by Plautus.
5 th Semester (HONS)	6 th Paper	20 th Century Poetry: W.H. Auden and W. Owen.

1 st semester (Elective)	Minor and Inter Disciplinary	<ul style="list-style-type: none"> • Basic notions of why read literature. Meaning of Literature. Functions of Literature. • Basics of writing
5 th Semester (Elective)	5 th Paper	Late 18 th and 19 th century Poetry

Class Plan
(Winter session)

SEMESTER (HONS AND ELECTIVE)	PAPER	TOPICS ALLOTTED	NO. OF CLASSES ALLOTTED	METHODS APPLIED
1 st (Hons)	2 ND	European Classical Literature: The Pot of Gold by Plautus.)	14	Lecture cum illustration Method
5 th (Hons)	6 th	20 th Century Poetry: W.H. Auden and W. Owen.	15	Lecture Method, Power Point Presentation
1 st (Elective)	1 st	1. Basic notions of why read literature. Meaning, functions of Literature. 2. Basics of writing	11	Lecture method, Group Presentation, Assignments.
5 th Semester (Elective)	5 th Paper	Late 18 th and 19 th century Poetry	16	Lecture cum Illustration method

Study Plan & Lesson Plan of Faruk Ahamed

STUDY PLAN

Winter Sesson

Semester	Paper	Topics
B.A 5 th	Paper vi	Unit ii: Love song of j. Alfred prufrock, Unit iv: the Lotus Eater
MA 1 ST	Paper I	Unit I: The Canterbury Tales. Unit II: The Metaphysical Poets; Unit III: The Faerie Queene
MA 1 st	Paper II	Unit II: A Midsummer Night's Dream, Unit IV: Volpone
MA 1 st	Paper iii	Unit ii: The Beggar's opera, Unit iv: An Essay on criticism.
MA 1 st	Paper iv	Unit i: Don Quixote, Unit iii: Tom Jones, Unit iv: crime and punishment
MA 1 st	Paper v	Unit i: select metaphysical poems, Unit ii: Astrophil and stella, Unit iv: Rousseau- Confessions

CLASS PLAN

Semester	Paper	Topics	HOURS	METHODS USED
B.A 5 th	Paper vi	Unit ii: Love song of j. Alfred prufrock, Unit iv: the Lotus Eater	12	Lecture, discussion, background study, board work, interaction, intensive illustration, QA session etc.

MA 1 st	Paper I	Unit I: The Canterbury Tales. Unit II: The Metaphysical Poets; Unit III: The Faerie Queene	27	Lecture, discussion, background study, board work, interaction, intensive illustration, QA session etc.
MA 1 st	Paper II	Unit II: A Midsummer Night's Dream, Unit IV: Volpone	20	Lecture, discussion, background study, board work, interaction, intensive illustration, QA session etc.
MA 1 st	Paper iii	Unit ii: The Beggar's opera, Unit iv: An Essay on criticism.	20	Lecture, discussion, background study, board work, interaction, intensive illustration, QA session etc.
MA 1 st	Paper iv	Unit i: Don Quixote, Unit iii: Tom Jones, Unit iv: crime and punishment	30	Lecture, discussion, background study, board work, interaction, intensive illustration, QA session etc.
MA 1 st	Paper v	Unit i: select metaphysical poems, Unit ii: Astrophil and stella, Unit iv: Rousseau-Confessions	20	Lecture, discussion, background study, board work, interaction, intensive illustration, QA session etc.

Study Plan & Lesson Plan of Timothy Tripura

Study Plan

(Winter Session)

Semester (HONS and ELECTIVE)	Paper	Topics allotted to discuss in the class
2 nd semester (FNDC2)	2 nd	Prose and Poetry
6 th semester (HONS)	6 th	North-East Literature
2 nd semester (Elective)	2 nd	North-Eastern poetry

Class Plan

(Winter session)

SEMESTER (HONS AND ELECTIVE)	PAPER	TOPICS ALLOTTED	NO. OF CLASSES ALLOTTED	METHODS APPLIED
2 nd semester (FNDC2)	2 nd	Prose and Poetry	10	Descriptive lectures, Assignments, Presentations.
6 th semester (HONS)	6 th	North-East Literature	8	Power point presentation, lectures, class test, presentations, group discussions
2 nd semester (Elective)	2 nd	North- Eastern poetry	10	Lecture series, Assignments.

Holy Cross College, Agartala

Study Plan (Academic Session 2021-22, Even Semester)		
Name of the Faculty	Mr. Achintya Bhattacharjee	
Department	Business Administration	
Paper	Quantitative Techniques for Management	
Paper Code	BMGT 202C	
Semester	2 nd	
Topic of Lecture	No of Hours Required	Reference Book/ Text Book
Unit 1: Probability Distribution : Meaning, Importance	2	<ul style="list-style-type: none"> • Fundamentals of Business Statistics By J.K.Sharma • Statistical Methods By N.G.Das. • Statistics for Management by Richard L Levin & David S Rubin-PHI.
Types of Probability Distribution: Normal Distribution, binomial Distribution & Poisson's Distribution.	3	
How to Choose correct Probability Distribution technique	2	
Numericals based on various types of Probability Distribution	8	
Unit 2 : Correlation Analysis: concept & Significance	1	
Difference between correlation & causation	1	<ul style="list-style-type: none"> • Fundamentals of Business Statistics By J.K.Sharma. • Statistical Methods By N.G.Das. • Statistics for Management by Richard L Levin & David S Rubin-PHI.
Various Types of Correlation	1	
Methods of correlation analysis: Karl Pearson Correlation Coefficient with Numerical	4	
Method of Spearman's Rank Correlation with numerical	4	
Class Test/Assignment	As per the Activity list	
Feedback to students	Performance based discussion/ necessary steps taken/ reviewing weak points & nurturing their concept.	
Revision/Remedial Classes	Revision is going on.	

Holy Cross College, Agartala

Study Plan (Academic Session 2021-22, Even Semester)		
Name of the Faculty	Mr. Achintya Bhattacharjee	
Department	Business Administration	
Paper	Cost Accounting	
Paper Code	BMGT 201C	
Semester	2 nd	
Topic of Lecture	No of Hours Required	Reference Book/ Text Book
Unit 4: Accounting for Materials & Labour Cost: Meaning, Importance of Inventory Control.	3	<ul style="list-style-type: none"> • Cost & Management Accounting by Jawharlal, Tata McGrew Hill publication. • Cost Accounting by Ashis k. Bhattacharya, PHI • Cost Accounting by Jain & Narang, Kalyani Publication • Cost & Management Accounting by M. N. Arora, Himalaya Publishing.
ABC Analysis, Determination of EOQ with Numericals	3	
Labour cost & structure of wages, Computation of wages with Bonus.	4	
Labour Turnover, causes of labour turnover & costing of it.	2	
UNIT 5: Contract Costing: Concept, Various terminologies used in it	2	
Accounting for contract profit or loss of incomplete & Complete contracts with numerical	4	<ul style="list-style-type: none"> • Cost & Management Accounting by Jawharlal, Tata McGrew Hill publication. • Cost Accounting by Ashis k. Bhattacharya, PHI • Cost Accounting by Jain & Narang, Kalyani Publication • Cost & Management Accounting by M. N. Arora, Himalaya Publishing.
Class Test/Assignment	As per the Activity list	
Feedback to students	Performance based discussion/ necessary steps taken/ reviewing weak points & nurturing their concept.	
Revision/Remedial Classes	Remedial classes are required	

Holy Cross College, Agartala

Study Plan (Academic Session 2021-22, Even Semester)		
Name of the Faculty	Mr. Achintya Bhattacharjee	
Department	Business Administration	
Paper	Research Methodology	
Paper Code	BMGT 401C	
Semester	4 th	
Topic of Lecture	No of Hours Required	Reference Book/ Text Book
UNIT: 5 Testing of Hypothesis & Report Writing: Concept of hypothesis, types of hypothesis,	5	<ul style="list-style-type: none"> • Research Methodology By C.R.Kothari, New Age publication. • International Business Research Methods By Zikmund, Berry, Babin, South Western Publications. • Statistics for Management by Richard L Levin & David S Rubin-PHI.
Various Test for Hypothesis: Z test, T test, Chi-Square Test, ANOVA	8	
Interpretation Techniques	2	
Report Writing concept and its significance	2	
Different steps of Report Writing	2	
Precautions of writing Report & Layout of it.	3	
Class Test/Assignment	As per the Activity list	
Feedback to students	Performance based discussion/ necessary steps taken/ reviewing weak points & nurturing their concept.	
Revision/Remedial Classes	Remedial classes are required.	

Holy Cross College, Agartala

Study Plan (Academic Session 2021-22, Even Semester)		
Name of the Faculty	Mr. Achintya Bhattacharjee	
Department	Business Administration	
Paper	Entrepreneurship Development & Small Business Fundamentals	
Paper Code	BMGT 405C	
Semester	4 th	
Topic of Lecture	No of Hours Required	Reference Book/ Text Book
UNIT:1: Entrepreneurship: Concept, Qualities of an effective entrepreneur	2	<ul style="list-style-type: none"> • Management & Entrepreneurship By Kanika Bedi, Oxford University Press Publication. • Exploring Entrepreneurship, practices and perspective By Richard Blundell & Nigel Lockett, Oxford University Press Publication • Small Scale Industries & Entrepreneurship, Vasant Desai, Himalaya Publication.
Types of entrepreneur	3	
Significance of an Entrepreneur in Economic Growth	1	
Different theories of entrepreneurship	2	
UNIT:2- Entrepreneurial System: How to search or get a business idea	2	<ul style="list-style-type: none"> • Management & Entrepreneurship By Kanika Bedi, Oxford University Press Publication. • Exploring Entrepreneurship, practices and perspective By Richard Blundell & Nigel Lockett, Oxford University Press Publication • Small Scale Industries & Entrepreneurship, Vasant Desai, Himalaya Publication.
Idea processing factors or techniques	1	
Role of innovation in entrepreneurial motivation	1	
Factors determining Entrepreneurial Growth	2	
Class Test/Assignment	As per the Activity list	
Feedback to students	Performance based discussion/ necessary steps taken/ reviewing weak points & nurturing their concept.	
Revision/Remedial Classes	Revision is going on	

Holy Cross College, Agartala

Study Plan (Academic Session 2021-22, Even Semester)		
Name of the Faculty	Mr. Achintya Bhattacharjee	
Department	Business Administration	
Paper	Management Accounting	
Paper Code	BMGT 605C	
Semester	6 th	
Topic of Lecture	No of Hours Required	Reference Book/ Text Book
UNIT:4 Accounting For Overheads : Meaning & Importance	1	<ul style="list-style-type: none"> • Cost & Management Accounting by Jawharlal, Tata McGraw Hill publication. • Cost Accounting by Ashis k. Bhattacharya, PHI. • Cost Accounting by Jain & Narang, Kalyani Publication. • Cost & Management. Accounting by M. N. Arora, Himalaya Publishing. • Management Accounting by Paresh Shah, Oxford University Publication.
Methods of Overhead costing: Primary Distribution & Secondary Distribution	2	
Problems of Overhead Costing	4	
Unit:5- Activity based Costing: Meaning & Importance	2	
Difference between traditional costing system with ABC system	1	
Techniques of ABC	2	
Problems of Absorption costing & variable costing	4	
Class Test/Assignment	As per the Activity list	
Feedback to students	Performance based discussion/ necessary steps taken/ reviewing weak points & nurturing their concept.	
Revision/Remedial Classes	Remedial classes are required.	

Holy Cross College, Agartala

Study Plan (Academic Session 2021-22, Even Semester)		
Name of the Faculty	Mr. Achintya Bhattacharjee	
Department	Business Administration	
Paper	International Business Finance	
Paper Code	BMGT 607C	
Semester	6 th	
Topic of Lecture	No of Hours Required	Reference Book/ Text Book
Unit:1 International Financial Environment: Concept of International business, Evolution of International Financial system	2	<ul style="list-style-type: none"> • International Financial Management by Madhu Biz , Excel books publication. • International Financial Management by H.R. Machiraju, Himalaya Publications. • International Financial Management by V.A. Avdhani. • International Financial Management by Shashi.K.Gupta &Pranect Rangi, Kalyani Publication.
The Gold Standard, Bretton Woods System	2	
Function of IMF, World Bank & WTO with concept of their members.	3	
Euro Bonds & recent pattern of International banking with current scenario examples	2	
UNIT:2: Foreign Exchange Risk Management: concept of Exchange Rate & Interest Rate with its nature and importance	1	
Inflation rate and nature of risk associated with investment.	2	
Exchange Rate & Interest Rate volatility with Problems	3	
Class Test/Assignment	As per the Activity list	
Feedback to students	Performance based discussion/ necessary steps taken/ reviewing weak points & nurturing their concept.	
Revision/Remedial Classes	Revision is going on.	

Holy Cross College, Agartala

Study Plan , (Academic Session 2021-22, Even Semester)		
Name of Teacher	Mrs. Rupa Saha	
Department	Department of Business Administration.	
Paper	Business Environment	
Paper Code	204 C	
Semester	2nd Sem	
Syllabus to be Covered	Unit 4 & 5	
Topics of Lecture	Number of hours required	Reference Book/ Text Book
Unit :4. Problems of Growth		Essential of Business Environment by K. Aswathappa , Business Environment by Perason, Economic Enviornment by Business by M Adhikary.
Unemployment, Poverty	2	
Regional Imbalance	1	
Social Inequality, Inflation	2	
Industrial Sickness	1	
Unit:- 5. Role of Government		
Monetary and Fiscal Policy	2	
Industrial Policy	1	
Industrial Licensing,	1	
Trade Policy , Disinvestment	2	
Class Test / Assignment/ Case Study / Presentation:	As per activity list	
Feedback to Students:	Performance based discussion/ Reviewing the week points/ Review of Marks.	
Revision / Remedial Classes	Required Remedial Classes	

Holy Cross College, Agartala

Study Plan , (Academic Session 2021-22, Even Semester)		
Name of Teacher	Mrs. Rupa Saha	
Department	Department of Business Administration.	
Paper	Marketing Management	
Paper Code	402 C	
Semester	4th Sem	
Syllabus to be Covered	Unit 5	
Topics of Lecture	Number of hours required	Reference Book/ Text Book
Unit :-5 Marketing Ethics		
Ethics & Marketing	1	Marketing management by Kotler. Marketing Management by Ramaswamy, Marketing Management by Tapan K. Panda
Ethical Decisions Making Process	1	
Distribution Management and Ethics	1	
Promotion and Ethics	1	
Product and Ethics	1	
Pricing and Ethics	1	
Industrial Policy	2	
Industrial Licensing,	2	
Trade Policy , Disinvestment	2	
Class Test / Assignment/ Case Study / Presentation:	As per activity list	
Feedback to Students:	Performance based discussion/ Reviewing the week points/ Review of Marks.	
Revision / Remedial Classes	Required Remedial Classes	

Holy Cross College, Agartala

Study Plan , (Academic Session 2021-22, Even Semester)		
Name of Teacher	Mrs. Rupa Saha	
Department	Department of Business Administration.	
Paper	Human Resource Management	
Paper Code	403C	
Semester	4th Sem	
Syllabus to be Covered	Unit 4 & 5	
Topics of Lecture	Number of hours required	Reference Book/ Text Book
Unit :-4 Industrial Relation		Human Resource Management by K. Aswathappa from Tata Mcgraw Hill. Human Resource Management by N.K Singh from Excel Books. Human Recourse Management by P. Subba Rao from Himalaya Publication.
Concept, Scope, Objective, Importance	1	
Causes for poor Industrial Relations, Developing sound Industrial Relation.	1	
Industrial Disputes: Concept, Forms, Causes, Prevention, Settlement.	1	
Unit :-5 Job Stress, Counseling Mentoring		
Meaning, Nature, Symptoms	1	
Causes & Management of Stress	1	
Introduction, Objectives,	1	
Benefits of Counseling, Mentoring	1	
Class Test / Assignment/ Case Study / Presentation:	As per activity list	
Feedback to Students:	Performance based discussion/ Reviewing the week points/ Review of Marks.	
Revision / Remedial Classes	Required Remedial Classes	

Holy Cross College, Agartala

Study Plan , (Academic Session 2021-22, Even Semester)		
Name of Teacher	Mrs. Rupa Saha	
Department	Department of Business Administration.	
Paper	Entrepreneurship Development and Small Business Fundamentals	
Paper Code	405C	
Semester	4th Sem	
Syllabus to be Covered	Unit 5	
Topics of Lecture	Number of hours required	Reference Book/ Text Book
Unit :-5 Government and Non Government Assistance and Policies:		Management and Entrepreneurship by Kanishka Bedi from Oxford University. Small Scale Industries and Entrepreneurship by Vasant Desai from Himalaya Publication.
National Policies	2	
Incentives including subsidies by Central and State Governments.	4	
Role of IDBI, IFCI, SFC, NABARD, KVC, SIDBI, SIDO, NSIC, DIE, IIE	3	
Class Test / Assignment/ Case Study / Presentation:	As per activity list	
Feedback to Students:	Performance based discussion/ Reviewing the week points/ Review of Marks.	
Revision / Remedial Classes	Required Remedial Classes	

Holy Cross College, Agartala

Study Plan , (Academic Session 2021-22, Even Semester)		
Name of Teacher	Mrs. Rupa Saha	
Department	Department of Business Administration.	
Paper	Service Management	
Paper Code	601C	
Semester	6th Sem	
Syllabus to be Covered	Unit 4 & 5	
Topics of Lecture	Number of hours required	Reference Book/ Text Book
Unit 4 : Services Marketing Mix - II		Service Marketing by Govind Apte from Oxford University Press. Service Marking by S.N. Jha from Himalaya Publication. Service Marketing by Verma from Pearson.
a. People: Introduction, Challenges of Managing People , Measuring Productivity of people in Service organization.	3	
b. Physical Evidence:- Introduction, Servicescape, Managing Physical Evidence.	2	
c. Process: Introduction, Service Blueprinting, Managing Demand And Supply	2	
Unit 5: Applications of Service Marketing		
Marketing of Financial, Hospitality, Medicare, Educational Sectors and Tourism.	2	
Class Test / Assignment/ Case Study / Presentation:	As per activity list	
Feedback to Students:	Performance based discussion/ Reviewing the week	

	points/ Review of Marks.
Revision / Remedial Classes	Required Remedial Classes

Holy Cross College, Agartala

Study Plan , (Academic Session 2021-22, Even Semester)		
Name of Teacher	Mrs. Rupa Saha	
Department	Department of Business Administration.	
Paper	Rural Management	
Paper Code	602C	
Semester	6th Sem	
Syllabus to be Covered	Unit 4 & 5	
Topics of Lecture	Number of hours required	Reference Book/ Text Book
Unit 4 : Product and Pricing Strategies for Rural Market		Rural Marketing by Pradeep Kashyap from Pearson Rural Marketing by Lalita Ramakrishnan from Pearson.
Product: Concept , Classification, Product Decision	1	
Product Strategies, Branding, Packaging, Product Warranty	1	
After sales service, New product development, Pricing, Price Setting Strategies.	2	
Unit 5: Distribution and Communication Strategies for Rural Markets		
Availability : The Challenge and the Dilemma, Distribution Channels, The rural retail environment. Channel Behaviour in rural areas	2	
Challenges for Rural Communication: The Communication Process: An Overview, developing effective rural communication	2	
Class Test / Assignment/ Case Study /	As per activity list	

Presentation:	
Feedback to Students:	Performance based discussion/ Reviewing the week points/ Review of Marks.
Revision / Remedial Classes	Required Remedial Classes

Holy Cross College, Agartala

Study Plan , (Academic Session 2021-22, Even Semester)		
Name of Teacher	Mrs. Rupa Saha	
Department	Department of Business Administration.	
Paper	Sales Management and Personal Selling	
Paper Code	603C	
Semester	6th Sem	
Syllabus to be Covered	Unit 5	
Topics of Lecture	Number of hours required	Reference Book/ Text Book
Unit 5 : Sales Force Evaluation		Selling and Sales Management b y David Jobber from Pearson Education. Sales & Distribution Management- An Indian Perspective Management by Pingali Venugopal from Response Sage, Publication ltd.
Process, Purpose of Evaluation, Setting Performance Standards	2	
Gathering Information, Measures of Performance, Appraisal Interviewing	3	
Class Test / Assignment/ Case Study / Presentation:	As per activity list	
Feedback to Students:	Performance based discussion/ Reviewing the week points/ Review of Marks.	
Revision / Remedial Classes	Required Remedial Classes	

Holy Cross College, Agartala

Study Plan , (Academic Session 2021-22, Even Semester)		
Name of Teacher	Mrs. Rupa Saha	
Department	Department of Business Administration.	
Paper	Sales Management and Personal Selling	
Paper Code	603C	
Semester	6th Sem	
Syllabus to be Covered	Unit 5	
Topics of Lecture	Number of hours required	Reference Book/ Text Book
Unit 5 : Sales Force Evaluation		Selling and Sales Management b y David Jobber from Pearson Education. Sales & Distribution Management- An Indian Perspective Management by Pingali Venugopal from Response Sage, Publication ltd.
Process, Purpose of Evaluation, Setting Performance Standards	2	
Gathering Information, Measures of Performance, Appraisal Interviewing	3	
Class Test / Assignment/ Case Study / Presentation:	As per activity list	
Feedback to Students:	Performance based discussion/ Reviewing the week points/ Review of Marks.	
Revision / Remedial Classes	Required Remedial Classes	

Holy Cross College, Agartala

Study Plan (Academic Session 2021-22, Even Semester)				
Name of Teacher:	Mr. Subhajit Paul			
Department:	Department of Business Administration			
Paper:	Rural Marketing			
Paper Code:	BMGT 602C			
Semester:	6 th (Marketing)			
Syllabus to be Covered :	UNIT - 1	UNIT - 2	UNIT - 3	UNIT - 4 UNIT - 5
Topic of Lecture	Number of hours required			Reference Book / Text Book
Unit 1: Rural Marketing: Introduction. Defining rural markets, rural myths.	2			1) Rural Marketing by Pradeep Kashyap - Pearson Publication. 2) Rural Marketing (Text and Cases) by C.S.J Krishnamacharyulu, Lalitha Ramakrishnan Pearson Publication. 3) Introduction to Rural Marketing by R. Krishnamurthy - Himalaya Publishing House
The rural marketing mix: challenges, the evolving rural consumer.	3			
The evolution of rural marketing, the rural environment.	2			
The rural economic environment, the rural infrastructure.	2			
The rural Boom, The way forward, Rural Dividend.	1			
Telecommunication in Rural India, Information and Telecommunication technology (ICT) in rural areas.	2			
Financial Services in Rural India, Cloud Computing for Rural banking, Rural Healthcare services.	2			

Unit 2: Rural Consumer Behavior. The Consumer buying behaviour model.	2	1) Rural Marketing by Pradeep Kashyap - Pearson Publication. 2) Rural Marketing (Text and Cases) by C.S.J Krishnamacharyulu, lalitha Ramakrishnan Pearson Publication.
The buyer decision Process.	2	3) Introduction to Rural Marketing by R. Krishnamurthy - Himalaya Publishing House
The product adoption process.	2	
Unit 3: Segmenting And Targeting Rural Markets. Segmentation	2	1) Rural Marketing by Pradeep Kashyap - Pearson Publication. 2) Rural Marketing (Text and Cases) by C.S.J Krishnamacharyulu, lalitha Ramakrishnan Pearson Publication.
Targeting	2	3) Introduction to Rural Marketing by R. Krishnamurthy - Himalaya Publishing House
Positioning	2	
Class Test / Assignment / Case Study / Presentation:		As per activity list
Feedback to students:		Performance based discussion / Reviewing the week points/ Review of Marks.
Revision / remedial classes		Required remedial classes

Holy Cross College, Agartala

Study Plan (Academic Session 2021-22, Even Semester)					
Name of Teacher:	Mr. Subhajit Paul				
Department:	Department of Business Administration				
Paper:	Sales Management And Personal Selling				
Paper Code:	BMGT 603C				
Semester:	6 th (Marketing)				
Syllabus to be Covered :	UNIT - 1	UNIT - 2	UNIT - 3	UNIT - 4	UNIT - 5
Topic of Lecture			Number of hours required		Reference Book / Text Book
Unit 3: Sales Force Management: Organisation for Recruitment & Selection			2		1) Selling & Sales Management by David Jobber, Geoffrey Lancaster - Pearson Education. 2) Sales & Distribution Management - An Indian Perspective by Pingali Venugopal - Response Sage Publications Ltd. 3) Sales Management Decisions, Strategies & Cases by Richard R. Still, Adward W. Cundiff, Norman A. P. Govoni - Prentice Hall
Sources of Sales Force Recruits			2		
Pre Interview Screening, Formal Application Form, The Interview.			1		
Supplementary Selection Aids.			1		
Motivation, Leadership, Training, Conclusions			1		
Designing Sales Compensation Plan, Types of Compensation Plans			2		
Fringe Benefits			1		
Unit 4: Sales Quotas Objectives in using Quotas.			1		
Types of Sales Quota & Procedure for Quota Setting.			2		
Administering the Quota Systems.			1		2) Sales & Distribution

				Management - An Indian Perspective by Pingali Venugopal - Response Sage Publications Ltd. 3) Sales Management Decisions, Strategies & Cases by Richard R. Still, Adward W. Cundiff, Norman A. P. Govoni - Prentice Hall
Class Test / Assignment / Case Study / Presentation:				As per activity list
Feedback to students:				Performance based discussion / Reviewing the week points/ Review of Marks.
Revision / remedial classes				Required remedial classes

Holy Cross College, Agartala

Study Plan (Academic Session 2021-22, Even Semester)					
Name of Teacher:	Mr. Subhajit Paul				
Department:	Department of Business Administration				
Paper:	Research Methodology				
Paper Code:	BMGT 401C				
Semester:	4 th				
Syllabus to be Covered :	UNIT - 1	UNIT - 2	UNIT - 3	UNIT - 4	UNIT - 5
Topic of Lecture			Number of hours required		Reference Book / Text Book
Unit 3: Measurement & Scaling Techniques: Measurement in Research.			1		1) Research Methodology by C.R. Kothari - New Age. 2) International Business Research Methods by Zikmund, Berry, Babin - South Western. 3) Statistics for Management by Richard L Levin, David S Rubin - PHI
Measurement Scales, Errors in Measurement. Measurement Tools.			2		
Meaning of Scaling, Scale classification Bases.			2		
Scale Construction Techniques.			1		
Unit 4: Methods Of Data Collection: Types of data, Collection of Primary Data.			1		1) Research Methodology by C.R. Kothari - New Age. 2) International Business Research Methods by Zikmund, Berry, Babin - South Western. 3) Statistics for Management by Richard L Levin, David S Rubin - PHI
Difference between questionnaires & schedules.			1		
Some other methods of data collection, Collection of Secondary data.			2		
Selecting Appropriate data collection method, Guideline for Constructing questionnaire/ Schedule.			3		
Guideline for successful					

interviewing, Difference between survey & Experiment.			3
Class Test / Assignment / Case Study / Presentation:			As per activity list
Feedback to students:			Performance based discussion / Reviewing the week points/ Review of Marks.
Revision / remedial classes			Required remedial classes

Holy Cross College, Agartala

Study Plan (Academic Session 2021-22, Even Semester)					
Name of Teacher:	Mr. Subhajit Paul				
Department:	Department of Business Administration				
Paper:	Human Resource Management 2				
Paper Code:	BMGT 403C				
Semester:	4 th				
Syllabus to be Covered :	UNIT - 1	UNIT - 2	UNIT - 3	UNIT - 4	UNIT - 5
Topic of Lecture	Number of hours required			Reference Book / Text Book	
Unit 1: Performance And Potential Appraisal: Meaning, Objectives, Process.	2			1) Human Resource Management (Text & Cases) by K.Aswathappa - Tata Mcgraw Hill. 2) Human Resource Management by N.K.Singh - Excel Books. 3) Human Resource Management by P.Subba Rao - Himalaya Publications. 4) Human Resource Management by Saiyadain - Tata Mcgraw Hill.	
Methods, Problems, Making Performance Appraisal Effective.	2				
Steps to Appraise Potential.	1				
Unit 2: Workers Participation In Management (Wpm): Definition, Meaning, Objectives.	2			1) Human Resource Management (Text & Cases) by K.Aswathappa - Tata Mcgraw Hill. 2) Human Resource Management by N.K.Singh - Excel Books. 3) Human Resource Management by P.Subba Rao - Himalaya Publications. 4) Human Resource Management by	
Levels, Forms.	2				
Why WPM fails? Making WPM Effective.	2				

		Saiyadain - Tata Mcgraw Hill.
Unit 3: Employee Grievances Management: Employee Discipline: Concept, Features, Objectives.	1	1) Human Resource Management (Text & Cases) by K.Aswathappa - Tata Mcgraw Hill.
Types, Causes of Indiscipline, Approaches	2	2) Human Resource Management by N.K.Singh - Excel Books.
Disciplinary Actions, Code of Discipline.	2	3) Human Resource Management by P.Subba Rao - Himalaya Publications.
Employee Grievances: Concept, Form, Causes, Effects	2	4) Human Resource Management by Saiyadain - Tata Mcgraw Hill.
Model Grievance Procedure, Guideline for handling Grievances	2	
Absenteeism; Causes and Control.	1	
Class Test / Assignment / Case Study / Presentation:		As per activity list
Feedback to students:		Performance based discussion / Reviewing the week points/ Review of Marks.
Revision / remedial classes		Required remedial classes

Holy Cross College, Agartala

Study Plan (Academic Session 2021-22, Even Semester)					
Name of Teacher:	Mr. Subhajit Paul				
Department:	Department of Business Administration				
Paper:	Entrepreneurship Development And Small Business Fundamentals				
Paper Code:	BMGT 405C				
Semester:	4 th				
Syllabus to be Covered :	UNIT - 1	UNIT - 2	UNIT - 3	UNIT - 4	UNIT - 5
Topic of Lecture			Number of hours required		Reference Book / Text Book
Unit 3: Small Business: Introduction, Definition as per MSMED Act, 2006.			1		1) Management and Entrepreneurship, 1/e by Kanishka Bedi - Oxford University Press
Characteristics, Objectives, Significance.			2		
Problems and Present position, Sickness in Small Business.			2		2) Competing through innovation: Essential Strategies for Small and Medium – sized firms by Bertrand Bellon, Graham Whittington - PHI 3) Exploring Entrepreneurship: Practices and Perspective, 1/e by Richard Blundel & Nigel Lockett - Oxford University Press 4) Small scale Industries and Entrepreneurship by Vasant Desai - Himalaya Publishing

Unit 4: Legal And Tax Considerations: Registration, Provisional Registrations, Permanent Registrations, Licensing.			2	1) Management and Entrepreneurship, 1/e by Kanishka Bedi - Oxford University Press
Tax Benefits under Different Act with Special reference to North East Industrial Investment.			2	2) Competing through innovation: Essential Strategies for Small and Medium – sized firms by Bertrand Bellon, Graham Whittington - PHI
Promotion Policy (NEIIPP), 2007.			1	3) Exploring Entrepreneurship: Practices and Perspective, 1/e by Richard Blundel & Nigel Lockett - Oxford University Press 4) Small scale Industries and Entrepreneurship by Vasant Desai - Himalaya Publishing
Class Test / Assignment / Case Study / Presentation:			As per activity list	
Feedback to students:			Performance based discussion / Reviewing the week points/ Review of Marks.	
Revision / remedial classes			Required remedial classes	

Holy Cross College, Agartala

Study Plan (Academic Session 2021-22, Even Semester)					
Name of Teacher:	Mr. Subhajit Paul				
Department:	Department of Business Administration				
Paper:	Quantitative Techniques For Management				
Paper Code:	BMGT 202C				
Semester:	2 nd				
Syllabus to be Covered :	UNIT - 1	UNIT - 2	UNIT - 3	UNIT - 4	UNIT - 5
Topic of Lecture			Number of hours required		Reference Book / Text Book
Unit 3: Regression Analysis Advantages of Regression analysis, Parameters of simple linear regression model.			3		1) Fundamentals of Business Statistics by J. K Sharma - 1st Edition, 2010, Pearson 2) Statistics for Management by Richard L Levin & David S. Rubin - PHI 3) Statistical Methods by N. G. Das - M. Das & Co.
Methods to determine regression coefficients.			2		
Numerical			15		
Unit 4: Time Series And Forecasting: Meaning, Trend analysis.			1		1) Fundamentals of Business Statistics by J. K Sharma - 1st Edition, 2010, Pearson 2) Statistics for Management by Richard L Levin & David S. Rubin - PHI 3) Statistical Methods by N. G. Das - M. Das & Co.
Variation in time series (Cyclical, seasonal, irregular).			2		
Forecasting and types.			2		
Numerical			15		
Class Test / Assignment / Case Study / Presentation:				As per activity list	
Feedback to students:				Performance based discussion / Reviewing the week points/ Review of Marks.	
Revision / remedial classes				Required remedial classes	

Holy Cross College, Agartala

Study Plan (Academic Session 2021-22, Even Semester)					
Name of Teacher:	Mr. Subhajit Paul				
Department:	Department of Business Administration				
Paper:	Business Environment				
Paper Code:	BMGT 204C				
Semester:	2 nd				
Syllabus to be Covered :	UNIT - 1	UNIT - 2	UNIT - 3	UNIT - 4	UNIT - 5
Topic of Lecture			Number of hours required		Reference Book / Text Book
Unit 3: Economic Trends: Income, Savings and Investment.			2		1) Essentials of Business Environment by K. Aswathappa - Himalaya Publishing House
Industry, Money, Finance			2		2) Economic Environment of Business by M. Adhikary - Sultan Chand & Sons
Price (an overall idea)			2		3) Business Environment by Shaikh Saleem - Pearson 4) Business Ethics & Professional Values by A. B. Rao - Excel Books
Unit 4: Problems Of Growth: Unemployment, Poverty Regional Imbalances.			3		1) Essentials of Business Environment by K. Aswathappa - Himalaya Publishing House
Social Inequality, Inflation.			2		2) Economic Environment of Business by M. Adhikary - Sultan Chand & Sons
Industrial Sickness.			2		3) Business

				Environment by Shaikh Saleem - Pearson 4) Business Ethics & Professional Values by A. B. Rao - Excel Books
Class Test / Assignment / Case Study / Presentation:				As per activity list
Feedback to students:				Performance based discussion / Reviewing the week points/ Review of Marks.
Revision / remedial classes				Required remedial classes

Holy Cross College, Agartala.

Study Plan (Academic Year 2021-22)			
Name of Teacher:		Mrs Sriparna Roy	
Name of the Department:		Department of Business Administration	
Semester:		2 nd	
Subject with Paper code:		Organizational Behaviour(203C)	
Semester-2nd			
Topic of Lecture		No of Hours Required	Reference Book/Text Book
Unit -I	Introduction to OB: Definition, Elements, nature ,Scope, Contributing Disciplines to OB, Challenges and Opportunities for OB	4	Organizational Behaviour: By S.P Robbins, Pearson Publication
Unit-II	Personality with Emphasis on Emotion and Moods: Concept,Determinants,Types,Theories, Emotion and Moods: Definition,Functions,sources,Emotional Intelligence,OB Applications	7	Organizational Behaviour:Text and Cases By S.S Khanka,S.Chand &Company Ltd.
Unit-III	Perception and Motivation: Concept,Influencing factors,Process,Link between Perception and Individual Decision Making Motivation: Concept,Theories,Applications of Motivation	8	Organizational brhaviour: By K.Aswathapa,Himalaya Publications
Unit-IV	Attitudes and Values: Definition,Importance,Formation of Attitudes,Major Job Attitudes,Job Satisfaction,Job Involvement,Organizational Commitment,Change of Attitudes,Concept of Values,Formation of Values,Types of Values	8	Organizational Behaviour:Text and Cases By S.S Khanka,S.Chand &Company Ltd.
Unit-V	Learning: Concept,Theories,Reinforcement Concept	7	Organizational Behaviour: By K.Aswathapa,Himalaya Publications
Class Test/Assignment/Case Study/Presentation		As per Activity List	
Revision/Remedial Classes		As per the Requirement	

Holy Cross College, Agartala.

Study Plan (Academic Year 2021-22)			
Name of Teacher:		Mrs Sriparna Roy	
Name of the Department:		Department of Business Administration	
Semester:		4 th	
Subject with Paper Code:		Operations Management(404C)	
Semester-4th			
Topic of Lecture		No of Hours Required	Reference Book/Text Book
Unit -I	Operations Management:Trends and Issues Manufacturing Trends in india,Services As part of operations Management,Concept of Operations management,Challenges,determinants,Process,system,Lay out Planning,implementation of layout Planning,design of Process layout,design of Product layout	8	Operations Management:Theory and Practice: By B.Mahadevan,Pearson Education
Unit-II	Total quality Management: Quality Revolution.Quality Gurus,Definition of quality,Quality Management Tools,Certification and Awards,Design of Quality assurance systems	8	Production and operations management: By S.A Chunnawala,Himlaya Publishing House
Unit-III	Facilities Location: Globalization of Operations,Factors Affecting Location Decisions,Location Planning Methods	8	Operations Management:Theory and Practice: By B.Mahadevan,Pearson Education
Unit-IV	Inventory planning and Six-sigma: Inventory Planning for Independent Demand Items,Types of Inventory,inventory costs,Inventory Control for deterministic Demand items,Handling Uncertainty of demand,Inventory Control system Six-Sigma Approach: Concept,Defects Per Million Opportunities,Organizations for Six-sigma quality,Process Control fundamentals,Setting up Process Control system,Process Improvement in Long run,six-sigma and process capability	12	Operations Management:Theory and Practice: By B.Mahadevan,Pearson Education
Unit-V	Scheduling of Operations: Concept,Needs for scheduling,Scheduling Alternative terms>Loading of Machines,The Scheduling Context,Scheduling of Flow Shop,Scheduling of Job Shop,Input-Output Control	10	Production and operations management: By S.A Chunnawala,Himlaya Publishing House
Class Test/Assignment/Case Study/Presentation		As per Activity List	
Revision/Remedial Classes		As per the Requirement	

Holy Cross College, Agartala.

Study Plan (Academic Year 2021-22)			
Name of Teacher:		Mrs Sriparna Roy	
Name of the Department:		Department of Business Administration	
Semester:		6 th (Finance)	
Subject with Paper Code:		Banking and Insurance(606C)	
Semester-6th(Finance)			
Topic of Lecture		No of Hours Required	Reference Book/Text Book
Unit -I	Banking: Meaning, Definition and Features of Banking, Evolution of Banking in India	6	Bank Management: By Vasant Desai,Himalaya Publishing House
Unit-II	Reserve Bank of India: Functions of RBI, Management and Administration of RBI, Credit Control Techniques by RBI	6	Indian Financial System: By Nayak and Sana
Unit-III	Commercial Banking in India: Meaning and Functions of Commercial Banks,Types,Cooperative Banks,Regional Rural Banks,Payment Banks Non-Performing Assets: Meaning,Reasons and Current Issues	8	Bank Management: By Vasant Desai,Himalaya Publishing House Indian Financial System: By Nayak and Sana
Unit-IV	Insurance: Meaning,Principles,Functions,Types,Importance,Procedure and Settlement	8	Fundamentals of Insurance: By P.K Gupta,Himalaya Publishing House
Unit-V	Indian Insurance Market: Organization of LIC,GIC,Other Insurance Companies in India,Current Scenario and Issues,IRDA	8	Banking and Insurance: By Tripathy
Class Test/Assignment/Case Study/Presentation		As per Activity List	
Revision/Remedial Classes		As per the Requirement	

Holy Cross College, Agartala

Study Plan (Academic Session 2022-23, Odd Semester)						
Name of Teacher:	Mrs. Sharmili Chakraborty					
Department:	Department of Business Administration					
Paper:	Consumer Behaviour					
Paper Code:	BMGT 501C					
Semester:	5 th (Marketing)					
Syllabus to be Covered:	UNIT - 1	UNIT - 2	UNIT - 3	UNIT - 4	UNIT - 5	
Topic of Lecture	Number of hours required					Reference Book / Text Book
Unit 1: Introduction to Consumer Behaviour: Introduction, Evolution of Consumer Behaviour, Factors affecting Consumer Behaviour,	2					1. Consumer Behaviour Schiffman and Kanuk PHI 2. Consumer Behaviour and Marketing Action Henry Assael Cengage Learning 3. Consumer Behaviour in Indian Context P.C.Jain and Monika Bhatt S.Chand 4. Consumer Behaviour-Text & Cases Satish K. Batra & S. H. H. Kazmi Excel Books
Scope & Application, Models of Consumer Behaviour (Nicosia, Howard-Sheth Model),	1					
Communication & Consumer Behaviour.	1					
Unit 2: The Influencing Factors on Consumer: Personality: Nature, Theories (Freudian, Neo- Freudian, Trait), Brand Personality.	3					
Motivation: Introduction, Dynamics of Motivation, Hierarchy of Need Theory, Motivational Research.	3					3. Consumer Behaviour in Indian Context P.C.Jain and Monika Bhatt

Learning: Elements, Theories (Classical Conditioning, Operant Conditioning, Observational Learning), Measurement of Consumer Learning.	3	S.Chand 4. Consumer Behaviour-Text & Cases Satish K. Batra & S. H. H. Kazmi Excel Books
Perception: Elements, Dynamics, Product Positioning, Perceived Price - Quality Relationship, Perceived Risk.	2	
Attitude: Introduction, Models (Tri-component Attitude Model, Attitude – Towards - The – Ad – Model), Attitude Formation	2	
Unit 3: Consumer in Their Social & Cultural Setting: Culture: Introduction, How Cultures Are Learned, Measurement of Culture.	3	1. Consumer Behaviour Schiffman and Kanuk PHI 2. Consumer Behaviour and Marketing Action Henry Assael Cengage Learning 3. Consumer Behaviour in Indian Context P.C.Jain and Monika Bhatt S.Chand 4. Consumer Behaviour-Text & Cases Satish K. Batra & S. H. H. Kazmi Excel Books
Social: Introduction, Different Social Classes in India, Measurement of Culture.	3	
Situational: Introduction, Types of Situation (Purchase, Consumption, Communication), Situational Influences on Consumer Behaviour.	3	
Unit 4: Consumer Decision Making Process: Introduction, Levels	3	1. Consumer Behaviour Schiffman and Kanuk PHI
Model of Consumer Decision Making,	3	2. Consumer Behaviour and Marketing Action Henry Assael
Gifting Behaviour,	2	

Post Purchase Behaviour.	2	Cengage Learning 3. Consumer Behaviour in Indian Context P.C.Jain and Monika Bhatt S.Chand 4. Consumer Behaviour-Text & Cases Satish K. Batra & S. H. H. Kazmi Excel Books
Unit 5: Current & Related Issues: Organisational Buying Behaviour: Introduction,	1	1. Consumer Behaviour Schiffman and Kanuk PHI 2. Consumer Behaviour and Marketing Action Henry Assael Cengage Learning
Organisational Buyer Characteristics,	2	3. Consumer Behaviour in Indian Context P.C.Jain and Monika Bhatt S.Chand
Process; Consumerism;	2	4. Consumer Behaviour-Text & Cases Satish K. Batra & S. H. H. Kazmi Excel Books
e-Commerce & Consumer Behaviour.	2	
Class Test / Assignment / Case Study / Presentation:		As per activity list
Feedback to students:		Performance based discussion / Reviewing the week points/ Review of Marks.
Revision / remedial classes		Required remedial classes

Holy Cross College, Agartala

Study Plan (Academic Session 2022-23, Odd Semester)					
Name of Teacher:	Mrs. Sharmili Chakraborty				
Department:	Department of Business Administration				
Paper:	Marketing Research				
Paper Code:	BMGT 504C				
Semester:	5 th (Marketing)				
Syllabus to be Covered:	UNIT - 1	UNIT - 2	UNIT - 3	UNIT - 4	UNIT - 5
Topic of Lecture	Number of hours required			Reference Book / Text Book	
Unit 1: Marketing Research Fundamentals: Introduction to Marketing Research, Overview of Research,	2			1. Marketing Research G. C. Berry Tata McGraw Hill 2. Marketing Research Luck, D. J. & Rubin, R. S. Prentice Hall 3. Marketing Research Naresh K. Malhotra Prentice Hall	
Application and Limitations of Marketing Research, Threats of Marketing Research,	3				
Marketing Information System, Marketing Decision Support System	3				
Unit 2: Marketing Research Management: Introduction to Importance of Research Management and Qualities of a Marketing Research Manager.	3			1. Marketing Research G. C. Berry Tata McGraw Hill 2. Marketing Research Luck, D. J. & Rubin, R. S. Prentice Hall 3. Marketing Research Naresh K. Malhotra Prentice Hall	
Organising Marketing Research Function, Evaluation and Control of Marketing Research	3				
Market Research versus Marketing Research	2				
Marketing Research and Marketing Management	2				

Class Test / Assignment / Case Study / Presentation:	As per activity list
Feedback to students:	Performance based discussion / Reviewing the week points/ Review of Marks.
Revision / remedial classes	Required remedial classes

Holy Cross College, Agartala

Study Plan (Academic Session 2022-23, Odd Semester)						
Name of Teacher:	Mrs. Sharmili Chakraborty					
Department:	Department of Business Administration					
Paper:	Marketing Management 1					
Paper Code:	BMGT 304C					
Semester:	3 rd					
Syllabus to be Covered:	UNIT - 1	UNIT - 2	UNIT - 3	UNIT - 4	UNIT - 5	
Topic of Lecture	Number of hours required			Reference Book / Text Book		
Unit 1: Marketing Principles and Society: Definition of Marketing, Importance, Scope,	3			1. Marketing Management Kotler, Keller, Koshi and Jha		
Core Marketing Concepts – Needs, Wants and Demands, Various concepts of Marketing,	2			2. Marketing Paul Baines, Chris Fill, Kelly Page		
Integrated Marketing, Analyzing Macro Marketing Environment, Environmental Scanning.	3			3. Marketing Management Ramaswamy, Namakumari		
Unit 2: Marketing Research and Marketing Information Systems: Meaning of Marketing Research,	2			4. Marketing Management Tapan K. Panda		
Process, Barrier in Marketing Research,	2			5. Marketing 3.0 Kotler, Kartajaya, and Setiawan		
Marketing Information System.	2			1. Marketing Management Kotler, Keller, Koshi and Jha		
Class Test / Assignment / Case Study / Presentation:	As per activity list					
Feedback to students:	Performance based discussion / Reviewing the week points/ Review of Marks.					
Revision / remedial classes	Required remedial classes					

Holy Cross College, Agartala

Study Plan (Academic Session 2022-23, Odd Semester)						
Name of Teacher:	Mrs. Sharmili Chakraborty					
Department:	Department of Business Administration					
Paper:	Organization Behavior 2					
Paper Code:	BMGT 301C					
Semester:	3 rd					
Syllabus to be Covered:	UNIT - 1	UNIT - 2	UNIT - 3	UNIT - 4	UNIT - 5	
Topic of Lecture	Number of hours required			Reference Book / Text Book		
Unit 1: Study of Group Behaviour:				1. Organisational Behaviour S. P. Robbins Pearson Publication 2. Organisational Behaviour Robbins, Judge, Sangchi Pearson Publication 3. Organisational Behaviour-Text & Cases Shekharan Tata Mcgraw Hill 4. Organisational Behaviour K.Aswhathapa Himalaya Publications 5. Understanding Organisational Behaviour Udai Pareek Oxford University Press		
Definition of Group, Classification, Importance,	3					
Stages of Group Development,	3					
Group Properties, Group Decision Making.	3					
Unit 2: Communication & Leadership:				1. Organisational Behaviour S. P. Robbins Pearson Publication 2. Organisational Behaviour Robbins, Judge, Sangchi Pearson Publication 3. Organisational Behaviour-Text & Cases Shekharan Tata Mcgraw Hill 4. Organisational Behaviour K.Aswhathapa Himalaya Publications 5. Understanding Organisational Behaviour Udai Pareek Oxford University Press		
a. Communication: Concept, Functions, Process, Direction of Communication, Interpersonal and Organisational Communication.	4					
b. Leadership: Concept, Styles, Theories (Trait and Behavioral Ohio State Studies, Michigan Studies), Concept of Managerial Grid.	4					
Class Test / Assignment / Case Study / Presentation:				As per activity list		
Feedback to students:				Performance based discussion / Reviewing the week points/ Review of Marks.		
Revision / remedial classes				Required remedial classes		

Holy Cross College, Agartala

Study Plan (Academic Session 2022-23, Odd Semester)						
Name of Teacher:	Mrs. Sharmili Chakraborty					
Department:	Department of Business Administration					
Paper:	Principles and Practices of Management					
Paper Code:	P1					
Semester:	3 rd					
Syllabus to be Covered:	UNIT - 2	UNIT - 4	UNIT - 1	UNIT - 3	UNIT - 5	
Topic of Lecture	Number of hours required			Reference Book / Text Book		
UNIT I						
Nature and significance of Management,	3			1. Koontz H., Weihrich H. (2009); Principles of Management; Tata Mc Graw Hill; 8th Edition.		
Approaches of management, Contributions of Taylor, Fayol and Barnard,	4			2. Williams C (2009) Principles of Management; South-Western/Cengage Learning; 5th Edition.		
Functions of a Manager, Social responsibility of Managers, Values in management.	4			3. Prasad L.M, principles and Practice of Management, Sultan Chand & Sons, 20th Edition.		
				4. Jaiswal B. & Maheshwari R.K. (2010), Essentials of Management: NRBC.		
				5. Weihrich Heinz and Koontz Harold (2013); Management: A Global, Innovative, and Entrepreneurial Perspective; Mc Graw Hill; 14th Edition.		
				6. Andrew Leigh (2012); The Essentials of Management: Everything you need to succeed as a new manager; Pearson UK; 2nd Edition.		
UNIT II						
The Nature of significance of Planning, Objectives, Steps of Planning, Decision making as key step in planning.	4			1. Koontz H., Weihrich H. (2009); Principles of Management; Tata Mc Graw Hill; 8th Edition.		
The Process and Techniques of Decision Making. Organisation: Nature and significance, Approaches, Departmentation,	4			2. Williams C (2009) Principles of Management; South-Western/Cengage Learning; 5th Edition.		
				3. Prasad L.M, principles and Practice of Management, Sultan Chand & Sons, 20th Edition.		
				4. Jaiswal B. & Maheshwari R.K. (2010), Essentials of Management: NRBC.		
				5. Weihrich Heinz and Koontz		

			Harold (2013); Management: A Global, Innovative, and Entrepreneurial Perspective; Mc Graw Hill; 14th Edition. 6. Andrew Leigh (2012); The Essentials of Management: Everything you need to succeed as a new manager; Pearson UK; 2nd Edition.
Line and staff relationships, Delegation and Decentralisation, Committee system, Department of effective organizing	4		
Class Test / Assignment / Case Study / Presentation:			As per activity list
Feedback to students:			Performance based discussion / Reviewing the week points/ Review of Marks.
Revision / remedial classes			Required remedial classes

Holy Cross College, Agartala

Study Plan (Academic Session 2021-22, Even Semester)				
Name of the Teacher:	Dr. SUSHOBHAN SENGUPTA			
Department:	Business Administration			
Paper:	RESEARCH METHODOLOGY			
Paper Code:	BMGT 401C			
Semester:	4 TH			
Syllabus to be Covered:	UNIT-I	UNIT-II		
Topic of Lecture	Number of Hrs. Required		Reference Book/Text Book	
Introduction To Research Methodology (Unit-1)	2		Kothari, C.R.. (2004). <i>Research methodology: Methods and techniques</i> (2nd revised edition). New Delhi: New Age International (P) Limited, Publishers.	
Meaning, Objectives, Types of Research			Kothari, C.R.. (2004). <i>Research methodology: Methods and techniques</i> (2nd revised edition). New Delhi: New Age International (P) Limited, Publishers.	
Importance, Approaches, Research Process, criteria of a good Research.	1		Kothari, C.R.. (2004). <i>Research methodology: Methods and techniques</i> (2nd revised edition). New Delhi: New Age International (P) Limited, Publishers.	
Features of a good Design, Different Research Designs, and Basic Principles of Experimental Designs.	1		Kothari, C.R.. (2004). <i>Research methodology: Methods and techniques</i> (2nd revised edition). New Delhi: New Age International (P) Limited, Publishers.	
Introduction to Sampling Design (unit-2): Census Vs Sample survey, steps in sampling Design, Criteria for selecting a sampling procedure,	2		Kothari, C.R.. (2004). <i>Research methodology: Methods and techniques</i> (2nd revised edition). New Delhi: New Age International (P) Limited, Publishers.	
Types of Sample Design, Simple Vs Complex Random Sampling Designs & Techniques.	2		Kothari, C.R.. (2004). <i>Research methodology: Methods and techniques</i> (2nd revised edition). New Delhi: New Age International (P) Limited, Publishers.	
Class test/ Assignment/Case Study/Presentation:	As per Activiti List			
Feedback to students:	Performance Discussion/ Review of Marks			
Revision/remedial Classes	Remedial Classes Required			

Date: _____

Holy Cross College, Agartala

Study Plan (Academic Session 2021-22, Even Semester)				
Name of the Teacher:	Dr. SUSHOBHAN SENGUPTA			
Department:	Business Administration			
Paper:	Cost Accounting			
Paper Code:	BMGT 201C			
Semester:	2nd			
Syllabus to be Covered:	UNIT-I	UNIT-II	UNIT=III	
Topic of Lecture	Number of Hrs. Required		Reference Book/Text Book	
Introduction To Cost Accounting (Unit-1): Meaning, nature and scope of Cost Accounting, Advantages and disadvantages of Cost Accounting, Difference between Cost Accounting and Financial Accounting.	2		Basu, S.P & Das. M. (2018). Cost And Management Accounting. Kolkata: Rabindra Library Pvt Ltd. Lal, J..(2013). Cost Accounting. New Delhi: McGrew Hill Education (India) Private Limited	
Cost Concepts, Classification and Cost Sheet (Unit-2): Meaning of cost, Nature of cost. Importance of classification of cost. Various types of costs, Meaning, Importance of cost sheet, Items of cost sheet, Method of cost sheet	3		Basu, S.P & Das. M. (2018). Cost And Management Accounting. Kolkata: Rabindra Library Pvt Ltd. Lal, J..(2013). Cost Accounting. New Delhi: McGrew Hill Education (India) Private Limited	
MARGINAL COSTING AND CVP ANALYSIS (Unit-3): Marginal costing and CVP analysis, Meaning, nature, advantages and disadvantages of Marginal costing, difference between marginal costing and absorption costing.	2		Basu, S.P & Das. M. (2018). Cost And Management Accounting. Kolkata: Rabindra Library Pvt Ltd. Lal, J..(2013). Cost Accounting. New Delhi: McGrew Hill Education (India) Private Limited	
Marginal cost statements, Relation between cost volume and profit, importance of CVP and BEP analysis, Determination of Contribution, profit volume ratio, margin of safety, angel of incidence.	2		Basu, S.P & Das. M. (2018). Cost And Management Accounting. Kolkata: Rabindra Library Pvt Ltd. Lal, J..(2013). Cost Accounting. New Delhi: McGrew Hill Education (India) Private Limited	
Class test/ Assignment/Case Study/Presentation:	As per Activiti List			
Feedback to students:	Performance Discussion/ Review of Marks			
Revision/remedial Classes	Remedial Classes Required			

Date: _____

Holy Cross College, Agartala

Study Plan (Academic Session 2021-22, Even Semester)				
Name of the Teacher:	Dr. SUSHOBHAN SENGUPTA			
Department:	Business Administration			
Paper:	Management Accounting			
Paper Code:	BMGT 605C			
Semester:	6th			
Syllabus to be Covered:	UNIT-I	UNIT-II	UNIT-III	
	-I			
Topic of Lecture	Number of Hrs. Required	Reference Book/Text Book		
USE OF MARGINAL COSTING IN DECISION MAKING (Unit-I): Decision Making Process in various situations (areas), viz. make or buy provisions, accept or reject business proposals (local market+ foreign markets), Export Order, Shut-Down or Continue, Stop or further Process, Selection of Optimum Product Mix, Key factors influencing decisions, Optimum level Production	5	Basu, S.P & Das. M. (2018). Cost And Management Accounting. Kolkata: Rabindra Library Pvt Ltd. Gupta, S.K., Sharma, R.K., Gupta, N. (2021). Management Accounting. Kalyani Publishers. Lal, J..(2013). Cost Accounting. New Delhi: McGrew Hill Education (India) Private Limited		
STANDARD COSTING: Meaning advantages and disadvantages of standard costing, Techniques of standard costing, Variance analysis and reporting	4	Gupta, S.K., Sharma, R.K., Gupta, N. (2021). Management Accounting. Kalyani Publishers. Lal, J..(2013). Cost Accounting. New Delhi: McGrew Hill Education (India) Private Limited		
BUDGETARY CONTROL SYSTEM: Meaning advantages and disadvantages of Budgetary control system, the Concept of Budget factor (Key or limiting factor) and the Budget Period, Types of Budgets, functional (or operational) Budgets, Sales, Production, Purchase, Cash Budget, Flexible Budgets, Zero-Based Budgets, Performance Budgets, Master Budget	4	Basu, S.P & Das. M. (2018). Cost And Management Accounting. Kolkata: Rabindra Library Pvt Ltd. Lal, J..(2013). Cost Accounting. New Delhi: McGrew Hill Education (India) Private Limited		
Class test/ Assignment/Case Study/Presentation:	As per Activiti List			
Feedback to students:	Performance Discussion/ Review of Marks			
Revision/remedial Classes	Remedial Classes Required			

Date: _____

Holy Cross College, Agartala

Study Plan (Academic Session 2021-22, Even Semester)					
Name of the Teacher:	Dr. SUSHOBHAN SENGUPTA				
Department:	Business Administration				
Paper:	International Business Finance				
Paper Code:	BMGT 607C				
Semester:	6th				
Syllabus to be Covered:	UNIT-I	UNIT-II	UNIT-III	Unit-IV	UNIT-V
Topic of Lecture	Number of Hrs. Required		Reference Book/Text Book		
INTERNATIONAL FINANCIAL ENVIRONMENT(Unit-1): Evolution of the International Financial System, The Gold Standard, The Bretton Wood System and the IMF, The World Bank, WTO, Euro Bonds, Recent Pattern of International Banking Activities, Balance of Payment	4		Hill, Hunt, Mehtani (2018). International Business: Competing in the Global Marketplace. New Delhi: McGrew Hill Education.		
FOREIGN EXCHANGE RISK MANAGEMENT (Unit-2): Exchange Rate, Interest Rate, Inflation Rate and Exposure, Nature & Exposure of Risk, Exchange Rate and Interest Rate Volatility, Problems.	4		Hill, Hunt, Mehtani (2018). International Business: Competing in the Global Marketplace. New Delhi: McGrew Hill Education.		
THEORIES ON EXCHANGE RATE MOVEMENTS (unit-3): Purchasing Power Parity, Fischer effect, International Fischer Effect.	4		Hill, Hunt, Mehtani (2018). International Business: Competing in the Global Marketplace. New Delhi: McGrew Hill Education.		
GLOBAL FINANCIAL MARKETS AND INTEREST RATES (unit-4): The Global Financial Markets, Domestic & Offshore Markets, Euro Markets, Interest Rate in the Global Money Markets and an Overview of Money Market Instrument	4		Hill, Hunt, Mehtani (2018). International Business: Competing in the Global Marketplace. New Delhi: McGrew Hill Education.		
FOREIGN EXCHANGE MARKET (Unit-5): Structure, Types of Transaction and Settlements Rates, Exchange Rate Quotation, Forward Quotation, Exchange Rate Regimes and Foreign Exchange Market in India	4		Hill, Hunt, Mehtani (2018). International Business: Competing in the Global Marketplace. New Delhi: McGrew Hill Education.		
Class test/ Assignment/Case Study/Presentation:	As per Activiti List				
Feedback to students:	Performance Discussion/ Review of Marks				
Revision/remedial Classes	Remedial Classes Required				

Date: _____

Holy Cross College, Agartala

Study Plan (Academic Session 2021-22, Even Semester)		
Name of Teacher:	Miss Mandrita Saha	
Department:	Department of Business Administration	
Paper:	Computer Skills I	
Paper Code:	BMGT 205C	
Semester:	2 nd	
Syllabus to be covered:	Whole Syllabus	
Topic of Lecture	Number of Hours required	Reference Book/Text Book
History of Computers, Evaluation of Computers, Generations of Computers	2	Computer Fundamentals by P.K Sinha, Priti Sinha, http://
Structure of Computers (Hardware)	4	Computer Fundamentals by P.K Sinha, Priti Sinha, http://
Structure of Computers (Software)	2	Computer Fundamentals by P.K Sinha, Priti Sinha, http://
Types of Computers, Applications of Computers	1	Computer Fundamentals by P.K Sinha, Priti Sinha, http://
Idea of Algorithm	2	Computer Fundamentals by P.K Sinha, Priti Sinha
Basics of programming Language	1	Computer Fundamentals by P.K Sinha, Priti Sinha,
Internet	2	Computer Fundamentals by P.K Sinha, Priti Sinha, http://
MS Word (Features, Word Menu, Table, Page Setup, Background)	1	http://www.javatpoint.com , https://edu.gcfglobal.org/en/w

MS Word(Font, Paragraph, Formatting, Symbols, equation, formatting of numbers)	1	http://www.javatpoint.com , https://edu.gcfglobal.org/en/w
MS Word(Mail-merge, Protected Document)	1	http://www.javatpoint.com , https://edu.gcfglobal.org/en/w
MS Excel(Features, Cell, worksheet, excel menu)	1	http://www.excel-easy.com , https://edu.gcfglobal.org/en/e
MS Excel(Simple formulas with basic functions, sorting, Charts)	3	http://www.excel-easy.com , https://edu.gcfglobal.org/en/e
MS PowerPoint Features, ppt Menu, creation of slides, animation	2	http://www.javatpoint.com , https://edu.gcfglobal.org/en/p
MS PowerPoint (Slide Transition, auto presentation, mouse click presentation)	1	http://www.javatpoint.com , https://edu.gcfglobal.org/en/p
Introduction to open Source Software	1	https://www.geeksforgeeks.org/open-source-freeware-and https://www.geeksforgeeks.org/introduction-to-open-sour https://www.tutorialspoint.com/basics_of_computers/basi
Class Test / Assignement / Case Study /Presentation:		As per activity list
Feedback to students:		Class test performance, Reviewing of Marks, Response of
Revision/Remedial classes:		Required Remedial Classes

Holy Cross College, Agartala

Study Plan (Academic Session 2022-23, Odd Semester)						
Name of Teacher:	Mr. Subhajit Paul					
Department:	Department of Business Administration					
Paper:	Advertising and Sales Promotion					
Paper Code:	BMGT 502C					
Semester:	5 th (Marketing)					
Syllabus to be Covered :	UNIT - 1	UNIT - 2	UNIT - 3	UNIT - 4	UNIT - 5	
Topic of Lecture	Number of hours required					Reference Book / Text Book
Advertising (Unit 1): Advertising, its nature, importance and functions	2					1. Advertising Principles and Practice Wells, Moriarty, Burnett Pearson Publication 2. Advertising Management Jethwaney and Jain Oxford University Press 3. Advertising and Sales Promotion Kazmi and Batra Excel Books 4. Advertising and Promotion Belch and Belch Tata McGraw Hill
Various types of Advertising	2					
Economic aspects of advertising	1					
Legal and ethical aspects of advertising, Criticism of advertising	1					
Setting advertising objectives and budget	2					
Advertising and communication (communication model – basic and advertising communication model)	2					
Role of source, encoding & decoding of messages, media, audience, feedback, noise	2					
Advertising (Unit 2): Introduction to Creative aspects of Advertising	2					

The Planning and Managing Creative Strategy, Copy (Concept, How to Write Copy for Print and Broadcast Media)	3	Burnett Pearson Publication
Advertising Appeals	3	2. Advertising Management Jethwaney and Jain Oxford University Press
Layout Planning	2	3. Advertising and Sales Promotion Kazmi and Batra Excel Books 4. Advertising and Promotion Belch and Belch Tata McGraw Hill
Advertising (Unit 3): Introduction to advertising media and planning	1	1. Advertising Principles and Practice Wells, Moriarty, Burnett Pearson Publication
Different types of media, media planning and scheduling Advertising campaign planning	2	2. Advertising Management Jethwaney and Jain Oxford University Press
Introduction to roles of advertising agency, its types, function, layout	2	3. Advertising and Sales Promotion Kazmi and Batra Excel Books 4. Advertising and Promotion Belch and Belch Tata McGraw Hill
Advertising Agency and Client Relationship	1	
Impact of Advertising: Consumer Behaviour and Advertisement	1	
Cultural, Social and Behavioural Influence on Consumer Decision	2	
Sales Promotion (Unit 1): Introduction, concept, nature, function, limitations of sales promotion, Reasons for rapid growth	2	1. Advertising Principles and Practice Wells, Moriarty, Burnett Pearson Publication
Types of sales promotion schemes	1	2. Advertising Management Jethwaney and Jain Oxford University
Sales promotion objectives, pull and push strategies	1	

Sales promotion and consumer behaviour: Theories (classical conditioning, instrumental conditioning, dissonance theory)	2	Press 3. Advertising and Sales Promotion Kazmi and Batra Excel Books 4. Advertising and Promotion Belch and Belch Tata McGraw Hill
Consumer decision making related to sales promotion	1	
Sales Promotion (Unit 2): Introduction to Sales Promotion Design: Promotion Choice, Approaches, Product Choice, Market Areas, Timing, Duration and Frequency.	2	1. Advertising Principles and Practice Wells, Moriarty, Burnett Pearson Publication
Sales Promotion Budget: Concept, Various Techniques of Fund Allocation; Characteristics of Successful Sales Promotion	2	2. Advertising Management Jethwaney and Jain Oxford University Press 3. Advertising and Sales Promotion Kazmi and Batra Excel Books 4. Advertising and Promotion Belch and Belch Tata McGraw Hill
Sales Promotion Effectiveness	1	
Sales Promotion Schemes: Sample, Coupon, Price Off, Premium, Contests, POP, Trade Fairs and Exhibitions, Internet Promotion	2	
Class Test / Assignment / Case Study / Presentation:		As per activity list
Feedback to students:		Performance based discussion / Reviewing the week points/ Review of Marks.
Revision / remedial classes		Required remedial classes

Holy Cross College, Agartala

Study Plan (Academic Session 2022-23, Odd Semester)					
Name of Teacher:	Mr. Subhajit Paul				
Department:	Department of Business Administration				
Paper:	Marketing Research				
Paper Code:	BMGT 504C				
Semester:	5 th (Marketing)				
Syllabus to be Covered :	UNIT - 1	UNIT - 2	UNIT - 3	UNIT - 4	UNIT - 5
Topic of Lecture		Number of hours required		Reference Book / Text Book	
Unit 2: Marketing Research Management Introduction to Importance of Research Management and Qualities of a Marketing Research Manager.		3		1. Marketing Research G. C. Berry Tata McGraw Hill 2. Marketing Research Luck, D. J. & Rubin, R. S. Prentice Hall 3. Marketing Research Naresh K. Malhotra Prentice Hall	
Organising Marketing Research Function, Evaluation and Control of Marketing Research		3			
Market Research versus Marketing Research		1			
Marketing Research and Marketing Management		2			
Unit 3: Data Collection, Sampling and Interviewing Introduction to Secondary Data (Evaluating Secondary Data, Sources of Secondary Data).		3		1. Marketing Research G. C. Berry Tata McGraw Hill 2. Marketing Research Luck, D. J. & Rubin, R. S. Prentice Hall 3. Marketing Research Naresh K. Malhotra Prentice Hall	

Collection of Primary Data (Observation, Methods of Observation, Questionnaire, Designing questionnaire, Choice of Survey Method)		2
Sampling Designs (Some Basic Terms, Estimation and Testing of Hypothesis, Advantages & Limitations of Sampling. The Sampling Process, Types of Sample Design, Characteristics of a Good Sample Design)		2
Interviewing: Conditions for a successful Interview, Selection for Interviewers, Training of Interviewers, Qualitative Research		2
Class Test / Assignment / Case Study / Presentation:	As per activity list	
Feedback to students:	Performance based discussion / Reviewing the week points/ Review of Marks.	
Revision / remedial classes	Required remedial classes	

Holy Cross College, Agartala

Study Plan (Academic Session 2022-23, Odd Semester)					
Name of Teacher:	Mr. Subhajit Paul				
Department:	Department of Business Administration				
Paper:	Business Law				
Paper Code:	BMGT 302C				
Semester:	3 rd				
Syllabus to be Covered :	UNIT - 1	UNIT - 2	UNIT - 3	UNIT - 4	UNIT - 5
Topic of Lecture	Number of hours required				Reference Book / Text Book
Unit 1 (Indian Contract Act, 1872): Introduction to Business Law, Indian Contract Act 1872, essentials of a valid contract, classification of contract according to their enforceability, Formation and Performance, offer and Acceptance, consideration, capacity to contract	4				1. Commercial and Industrial Law Dr. N. D. Kapoor S. Chand and Sons 2. Company Law Taxman 3. Business Law P.S.H Pillai, Bagavathi S.Chand and Co. Ltd 4. Business Law Bulchandani Himalaya Publishing House
Free consent - Coercion, Undue influence, void voidable unenforceable and illegal Agreements'	3				5. Business Law S.N.Maheshwari Himalaya Publishing House
Discharge of contract termination of contract, Preach of contract - Remedies, Damages, Indemnity, guarantee	3				
Unit 2 (Sale Of Goods Act, 1930): Introduction to Sale of Goods Act, 1930	1				1. Commercial and Industrial Law Dr. N. D. Kapoor S. Chand and Sons 2. Company Law

Formation of contracts of sale, goods and their classification, price, conditions and warranties, transfer of property in goods	2		Taxman 3. Business Law P.S.H Pillai, Bagavathi S.Chand and Co. Ltd 4. Business Law Bulchandani Himalaya Publishing House
Performance of the contract of sale, unpaid seller and his rights, sale by auction, hire purchase agreement	2		5. Business Law S.N.Maheshwari Himalaya Publishing House
Sales & Agreement to Sale	1		
Unit 3 (Negotiable Instruments Act, 1881): Introduction to Negotiable Instruments Act, 1881, Definitions and features of different types of negotiable instruments (promissory note, bill of exchange and cheque)	2		1. Commercial and Industrial Law Dr. N. D. Kapoor S. Chand and Sons 2. Company Law Taxman 3. Business Law P.S.H Pillai, Bagavathi S.Chand and Co. Ltd
Parties to a negotiable instrument and their capacity, holder and holder in due course, crossing of a cheque	2		4. Business Law Bulchandani Himalaya Publishing House 5. Business Law S.N.Maheshwari Himalaya Publishing House
Types of crossing, Banker and Customer, negotiation	2		
Dishonour and discharge of negotiable instrument	1		
Class Test / Assignment / Case Study / Presentation:		As per activity list	
Feedback to students:		Performance based discussion / Reviewing the week points/ Review of Marks.	
Revision / remedial classes		Required remedial classes	

Holy Cross College, Agartala

Study Plan (Academic Session 2022-23, Odd Semester)					
Name of Teacher:	Mr. Subhajit Paul				
Department:	Department of Business Administration				
Paper:	Organizational Behavior 2				
Paper Code:	BMGT 301C				
Semester:	3 rd				
Syllabus to be Covered :	UNIT - 1	UNIT - 2	UNIT - 3	UNIT - 4	UNIT - 5
Topic of Lecture			Number of hours required		Reference Book / Text Book
Unit 3 (Study of Organization): Introduction to the concept of organization, its types, importance, and in-depth knowledge about Organisational Designs (Simple, Bureaucracy and Matrix)			3		1. Organisational Behaviour S. P. Robbins Pearson Publication 2. Organisational Behaviour Robbins, Judge, Sangchi Pearson Publication 3. Organisational Behaviour-Text & Cases Shekharan Tata Mcgraww Hill 4.
New Designs (Team Structure, Virtual Organisation)			2		Organisational Behaviour K.Aswhatha Himalaya Publications 5. Understanding Organisational Behaviour Udai Pareek Oxford University Press
Unit 4 (Organisational Change and Development): Introduction to the concept of Organizational Effectiveness, Change and Development			2		1. Organisational Behaviour S. P. Robbins Pearson Publication 2. Organisational Behaviour Robbins, Judge,

Approaches to Manage Organisational Change and Development (Lewin 3 Stage Model, Action Research, OD)			3	Sangchi Pearson Publication 3. Organisational Behaviour-Text & Cases Shekharan Tata Mcgraww Hill 4.
Organisational Change and Development in Indian Scenario			1	Organisational Behaviour K.Aswathapa Himalaya Publications 5. Understanding Organisational Behaviour Udai Pareek Oxford University Press
Unit 5 (Some well known studies): Introduction to the topic and various studies related to Organization and Organizational Effectiveness			2	1. Organisational Behaviour S. P. Robbins Pearson Publication 2. Organisational Behaviour Robbins, Judge, Sangchi Pearson Publication
Hawthorn study, Lippit and White, Coch and French			2	3. Organisational Behaviour-Text & Cases Shekharan Tata Mcgraww Hill 4. Organisational Behaviour K.Aswathapa Himalaya Publications 5. Understanding Organisational Behaviour Udai Pareek Oxford University Press
Class Test / Assignment / Case Study / Presentation:				As per activity list
Feedback to students:				Performance based discussion / Reviewing the week points/ Review of Marks.
Revision / remedial classes				Required remedial classes

Holy Cross College, Agartala

Study Plan (Academic Session 2022-23, Odd Semester)					
Name of Teacher:	Mr. Subhajit Paul				
Department:	Department of Business Administration				
Paper:	Marketing Management 1				
Paper Code:	BMGT 304C				
Semester:	3 rd				
Syllabus to be Covered :	UNIT - 1	UNIT - 2	UNIT - 3	UNIT - 4	UNIT - 5
Topic of Lecture			Number of hours required		Reference Book / Text Book
Unit 3 (Marketing Psychology & Consumer Buying Behaviour): Introduction to Creating customer value, Satisfaction & Loyalty			3		1. Marketing Management Kotler, Keller, Koshi and Jha 2. Marketing Paul Baines, Chris Fill, Kelly Page
Model of Consumer Behavior			1		
Consumers use or Disposal of Products			1		3. Marketing Management Ramaswamy, Namakumari
Business Buying Process			1		4. Marketing Management Tapan K. Panda 5. Marketing 3.0 Kotler, Kartajaya, and Setiawan
Unit 4 (Identifying Market Segments and Targets): Introduction to Segment Marketing, Niche Marketing, Local Marketing, Individual Marketing			3		1. Marketing Management Kotler, Keller, Koshi and Jha 2. Marketing Paul Baines, Chris Fill, Kelly Page

Consumer Market Segmentation Bases and Business Market Segmentation Bases			2	3. Marketing Management Ramaswamy, Namakumari 4. Marketing Management Tapan K. Panda
Market Targeting			1	5. Marketing 3.0 Kotler, Kartajaya, and Setiawan
Market Fragmentation and Consolidation			1	
Unit 5 (Dealing with Competition): Introduction to how to identify and analyze competitors			2	1. Marketing Management Kotler, Keller, Koshi and Jha
Competitive strategies for market leaders			2	2. Marketing Paul Baines, Chris Fill, Kelly Page
Other competitive strategies			2	3. Marketing Management Ramaswamy, Namakumari 4. Marketing Management Tapan K. Panda 5. Marketing 3.0 Kotler, Kartajaya, and Setiawan
Class Test / Assignment / Case Study / Presentation:				As per activity list
Feedback to students:				Performance based discussion / Reviewing the week points/ Review of Marks.
Revision / remedial classes				Required remedial classes

Holy Cross College, Agartala

Study Plan (Academic Session 2022-23, Odd Semester)					
Name of Teacher:	Mr. Subhajit Paul				
Department:	Department of Business Administration				
Paper:	Managerial Economics				
Paper Code:	BMGT 105C				
Semester:	1 st				
Syllabus to be Covered :	UNIT - 1	UNIT - 2	UNIT - 3	UNIT - 4	UNIT - 5
Topic of Lecture	Number of hours required				Reference Book / Text Book
Unit 1 (Basic Concepts and Issues in Economic Theory): Introduction to Managerial Economics & central problems of an economy	2				1. Advanced Economic Theory H.L.Ahuja S.Chand 2. Micro Economic Theory & Macro Economic Theory Joydeb Sarkhel Dey Book Concern
Elasticity of demand – price, income and cross elasticities.	3				
Concept of supply equilibrium	3				
Unit 2 (Theory of Production and Costs): Introduction to the concept of Production function, short-run and long-run production function	2				1. Advanced Economic Theory H.L.Ahuja S.Chand 2. Micro Economic Theory & Macro Economic Theory Joydeb Sarkhel Dey Book Concern
Different types of cost and shapes of different cost curves	2				

Unit 3 (Market Structure): Introduction to the concept of perfect, monopoly, monopolistic and oligopoly-determination of price and output	3		1. Advanced Economic Theory H.L.Ahuja S.Chand 2. Micro Economic Theory & Macro Economic Theory Joydeb Sarkhel Dey Book Concern
Introduction to the concept of tax, market failure	2		
New Markets: Scope and Challenges	2		
Class Test / Assignment / Case Study / Presentation:		As per activity list	
Feedback to students:		Performance based discussion / Reviewing the week points/ Review of Marks.	
Revision / remedial classes		Required remedial classes	

Holy Cross College, Agartala

Study Plan (Academic Session 2022-23, Odd Semester)						
Name of Teacher:	Mr. Subhajit Paul					
Department:	Department of Business Administration					
Paper:	Business Organizations (as per new syllabus of NEP 2020)					
Paper Code:	P2					
Semester:	1 st					
Syllabus to be Covered :	UNIT - 1	UNIT - 2	UNIT - 3	UNIT - 4	UNIT - 5	
Topic of Lecture	Number of hours required					Reference Book / Text Book
Unit 1: Knowledge and concepts of business essentials & scope of business	2					1. R. K. Singla and S. S. Narta (2014): Business organization and Management. 2. Stoner, Freeman and Gillbert Jr (2003); Management Concepts and Practices, Sultan Chand and Sons, New Delhi. 3. Robbins, S. (2017), Management, Pearson Education, New Delhi; (13 th Ed.)
Gaining in-depth classification of business activities	2					
Gaining in-depth knowledge (meaning, definition, characteristics and objectives) of business organizations.	1					
Understanding the evolution of business organizations	1					
Gaining knowledge about modern business, business & profession	2					
Unit 2: Introduction to the concepts of business unit & establishing a new business unit	3					
Knowledge of promotion, features of business	2					
Plant location, plant layouts and size of business unit	3					

		Management, Pearson Education, New Delhi; (13 th Ed.)
Unit 3: Introduction to the concepts of organization process, its importance and principles	2	1. R. K. Singla and S. S. Narta (2014): Business organization and Management. 2. Stoner, Freeman and Gillbert Jr (2003); Management Concepts and Practices, Sultan Chand and Sons, New Delhi.
Knowledge of various aspects of organization, organization structure	2	3. Robbins, S. (2017), Management, Pearson Education, New Delhi; (13 th Ed.)
Concepts of departmentation, line and staff relationships, span of control, delegation of authority, decentralization	2	
Unit 4: Introduction to business combination, its meaning, causes and objectives	2	1. R. K. Singla and S. S. Narta (2014): Business organization and Management. 2. Stoner, Freeman and Gillbert Jr (2003); Management Concepts and Practices, Sultan Chand and Sons, New Delhi.
Types and forms of mergers, takeovers and acquisitions	2	3. Robbins, S. (2017), Management, Pearson Education, New Delhi; (13 th Ed.)
Basic concepts of business finance	2	
Financial need of business methods & sources of finance	2	
Concepts of security market, money market, study of stock exchange and SEBI	1	
Class Test / Assignment / Case Study / Presentation:		As per activity list
Feedback to students:		Performance based discussion / Reviewing the week points/ Review of Marks.
Revision / remedial classes		Required remedial classes

STUDY PLAN

TEACHER: -Dr.Tomina NS

PERIOD: - 1st April 2022 to 8th July & 5th September to 15th December

<p>1st Sem C4: language Across the Curriculum</p>	<p>1st Sem C5:Understanding Discipline and Subjects</p>	<p>2nd Sem C7a: Pedagogy of School Subject Part-1 English</p>	<p>2nd Sem C8a : Knowledge and Curriculum Part-1</p>	<p>3rd Sem C7b: pedagogy of school subject part-1i english</p>	<p>4th Semester C8b : knowledge and curriculum part-2</p>	<p>4th Semester C11: Educational Administration & Management</p>	<p>4th Sem EPC 4: Understanding The Self</p>
<p>Unit - 1 Understanding the language background of students Language: meaning, concepts & process of development</p>	<p>Unit - 2 •Language as a subject and discipline •Nature, history, method, understanding and place in the curriculum</p>	<p>Unit - 1 Foundation of Language teaching •Significance, meaning, nature & scope •Brief Historical background •Aims and objectives</p>	<p>Unit - 1 •Knowledge – meaning, Cnature, difference between knowledge and doing, thinking and feeling. •Difference between:</p>	<p>Unit - 1 Pedagogical Analysis Concepts and method of pedagogical Analysis Pedagogical knowledge of content from various classes VI to XII Selection of units and breaking of sub units</p>	<p>Unit - 1 Concept of democracy in school practices; interrelation between nationalism, internationalism & secularism and their</p>	<p>Unit - 1 Educational Administration- meaning purpose, objectives & scope: Functions of educational administration. Role & functions of Headmaster & teacher- qualities of</p>	<p>Unit - 2 Professional Identity of a teacher Identity of the self from gender, relational, cultural viewpoints Unit - 3</p>

<ul style="list-style-type: none"> • Function of language • Theory of language development- Chomsky, Bloomfield Unit - 2 •Language diversity in classroom •Bilingualism and Multi-lingualism – meaning, nature & characteristics •Understanding of multilingualism in the classroom 		<ul style="list-style-type: none"> •Innovation in language teaching Unit - 2 Strategies of language teaching •Different methods of teaching •Lecture method •Interactive method •Demonstration method •Heuristic method •Project method •CAI 	<p>Knowledge and skill;’ teaching and training;’ knowledge and information; reason and belief.</p> <p>Unit - 2</p> <ul style="list-style-type: none"> •Western thinkers of education- Plato, Dewey, Freire •Indian thinkers of education- Vivekananda, Tagore, Gandhi. Nature and processes of socialization- 	<p>Instructional objectives in behavioural terms</p> <p>Teaching learning strategies</p> <p>Use of Teaching Aids</p> <p>Blue print for criterion reference test items</p> <p>Unit - 2 Teaching Skills</p> <ul style="list-style-type: none"> • Micro Teaching and Micro lesson • Simulated Teaching • Integrated Teaching/ Teaching in class room situation <p>Unit - 3 Learning Design</p>	<p>implication</p>	<p>a Headmaster as educational administrator.</p> <p>Supervision- meaning, nature, scope & types of inspection: strategies to be taken for good inspection& supervision with reference to the schools in Tripura.</p> <p>Unit - 2 Educational Management- meaning, characteristics, need, scope & significance:</p>	<p>Self expression by exploring one’s dreams, aspirations, needs, concerns, life stories, poetry and humour, creative movement aesthetic representation etc</p>
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<p>•Home language & school language – their similarity & dissimilarity; 'standard' language vs. home 'dialects'.</p>		<p>method •Story telling.</p> <p>Unit - 3</p> <p>Learning Resources in Language Teaching</p> <p>•Importance of learning resource</p> <p>•Language text books •Teaching aids in language subjects</p> <p>•Language library</p> <p>•Language laboratory</p>	<p>(a)At home: family as a social institution; parenting style and their impact; transmission of parental expectations and values.</p> <p>(b)At community: neighbourhood, extended family, religious group and their socialization functions.</p> <p>(c) At school: impact of entry to school; school as</p>	<p>Concept, importance and types</p> <p>Steps of design</p> <p>Qualities of good learning design</p> <p>Unit - 4 Activities in Language</p> <p>Fair and exhibition</p> <p>Field trips/excursion</p> <p>Debate</p> <p>Wall and Annual magazine</p> <p>Subject club</p> <p>Unit - 5 Assessment of language Learning</p> <p>Concept of assessment and evaluation</p> <p>Achievement test</p> <p>Text book review</p>		<p>Educational Administration vs. Educational Management, components of constituents of Educational Maagement. Institutional Management-meaning, components: need & organizing co-curricular activities. Educational Planning- meaning, need, types, strategies & steps: Educational Finance- concept &</p>	
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		<ul style="list-style-type: none"> •Language teacher Unit - 4 Evaluation in Language teaching •Evaluation in programme •CCE (Continues & Comprehensive Evaluation) •Formative and summative evaluation •Diagnose and remediation •Achievement test-planning 	<p>a social institution; value formation in the context of schooling.</p> <p>(d) Understanding interface between home, community and school; inter-linkages within wider socio-cultural contexts.</p>			<p>scope: sources of income: educational expenditure: educational resources.</p>	
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DEPARTMENT OF TEACHER EDUCATION
HOLY CROSS COLLEGE, AGARTALA

STUDY PLAN

TEACHER: -Tapashi Saha

Ist Sem C1: Child and Growing up	1 st Sem C5: Understanding discipline and subjects	3 rd Sem C7b: pedagogy of school subject part-Ii english	3 rd Sem C7b: pedagogy of school subject part-Ii english
<p>Unit 3</p> <p>Childhood with diverse contexts-issues related to marginalization, childhood characteristics of children in slum areas, girl children in urban slum area, dalit children and exceptional children.</p> <p>Development characteristics of children from different socio- cultural & political background, problems of development faced by backward and minority children with special reference to Tripura.</p> <p>UNIT-5</p> <p>Experiences in childhood and adolescence- significance of gender, caste, role of parents and teachers in adolescence</p>	<p>UNIT-3</p> <p>Mathematics as a subject and discipline</p> <p>Nature, History, Method, Understanding, and Place in Curriculum</p>	<p>Unit - 1</p> <p>Pedagogical Analysis</p> <p>Concepts and method of pedagogical Analysis</p> <p>Pedagogical knowledge of content from various classes VI to XII</p> <p>Selection of units and breaking of sub units</p> <p>Instructional objectives in behavioural terms</p> <p>Teaching learning strategies</p> <p>Use of Teaching Aids</p>	<p>Unit - 1</p> <p>Pedagogical Analysis</p> <p>Concepts and method of pedagogical Analysis</p> <p>Pedagogical knowledge of content from various classes VI to XII</p> <p>Selection of units and breaking of sub units</p> <p>Instructional objectives in behavioural terms</p> <p>Teaching learning strategies</p> <p>Use of Teaching Aids</p>

Tapashi Saha
6.09.22

<p>Individual differences:nature, causes, understanding,differences based on diversity of language,caste, gender, community, religion, etc</p>		<p>Blue print for criterion reference test items</p> <p>Unit - 2</p> <p>Teaching Skills</p> <ul style="list-style-type: none"> ● Micro Teaching and Micro lesson ● Simulated Teaching ● Integrated Teaching/ Teaching in class room situation <p>Unit - 3</p> <p>Learning Design</p> <p>Concept, importance and types</p> <p>Steps of design</p> <p>Qualities of good learning design</p>	<p>Blue print for criterion reference test items</p> <p>Unit - 2</p> <p>Teaching Skills</p> <ul style="list-style-type: none"> ● Micro Teaching and Micro lesson ● Simulated Teaching ● Integrated Teaching/ Teaching in class room situation <p>Unit - 3</p> <p>Learning Design</p> <p>Concept, importance and types</p> <p>Steps of design</p> <p>Qualities of good learning design</p>
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Jafarshi Saha
6/9/22

		Unit - 4 Activities in Language Fair and exhibition Field trips/excursion Debate Wall and Annual magazine Subject club	Unit - 4 Activities in Language Fair and exhibition Field trips/excursion Debate Wall and Annual magazine Subject club
		Unit - 5 Assessment of language Learning Concept of assessment and evaluation Achievement test Text book review	Unit - 5 Assessment of language Learning Concept of assessment and evaluation Achievement test Text book review

Jyoti Saha
6/9/22

Lesson plan-1

Class: B. Ed 1st Semester

Paper: C1, Child and growing up

Paper: C5, Understanding subjects

Course Content/Syllabus for Semester 1

Day	C1	Date	C5
1	Characteristic of childhood and adolescent period Child development skill	1	Maths as a subject and discipline, Nature, History
2	Physical development in school age children, Social Development	2	Methods of teaching
3	Marginalization, Marginalized groups, Actions of marginalization, Impact of marginalization	3	Understanding and place in curriculum of maths
4	Marginalization children, Slum and impact, Slum child and experience, Girl child of urban slum area, Education & Slum Child	4	Revision
5	Dalit and discrimination	5	Remedial Classes
6	Exceptional children, Disabled children	6	Solving question papers
7	Agents of Socialization, Socio Culture influence on Development, Problems of development in Tripura		
8	Understanding childhood & adolescence, Characteristics		
9	Significance of gender, caste, Role of parents, Role of teachers		
10	Individual differences Nature, causes,		
11	Understanding differences, Diversity		

Japashli Saha
6/9/22

	of language, Caste, gender, Community, religion		
12	Revision		
13	Remedial Classes		
14	Solving question papers		

Mode of transaction: 1. Lectures, 2. Discussion, 3. Assignments, 4. Power point presentation. 5. Film related to topic.

Reference:

Aggarwal, J. C. (2008). *Essentials of Educational Psychology*. Noida: Vikash Publishing House.

Bhattacharyya, D. (2008). *Sociology*. Kolkata: Vijaya Publishing House.

Chattopadhyaya Dr. K. et al Understanding Discipline and subject : Aaheli Publishers

Chakravorty Dr. P.K. Understanding Discipline and subjects (Bengali) : Rita Publications.

Dhar, Dr. D. et al, Understanding Discipline and subjects (Bengali) ;Rita Prakashan

Mete, Dr. J. Child and growing up (Bengali): Rita Publication

Nag, S., & Nag, D. S. (2017). *Childhood and growing up*. Kolkata: Rita Publications.

Nagasurendran. (2017, October). *Marginalised children: Issues and concerns*. Retrieved from <http://surendranedu.wordpress.com>

Paul, Dr D : Child and growing up (Bengali): Rita Publication

Roy, R. (2007). *Ethno-Pedagogy*. Delhi: Shipra Publications.

Sameer, M. N. (2016). *Childhood and Growing up*. Delhi: Educational Publishers and Distributors.

Sengupta Dr. M- Understanding Discipline and subjects : Rita Publication

Taj, D. H. (2007). *An Introduction to Social Psychology*. Hyderabad, New Delhi: Neelkamal Publications Pvt. Ltd.

Williams, J. (2007). *Cultural and Social factors that affect development*. Retrieved from <https://makewealthhistory.org>

Tapasvi Saha
6/9/22

Lesson plan-2

Class: B. Ed 3rd Semester

Paper: C7b, Pedagogy of School Subject

(Physical Science, Mathematics)

Course Content/Syllabus for Semester3

Day	C7b Phy. Sc.	Day	C7b Maths
1	Concept and method of Pedagogical Analysis	1	Concept and method of Pedagogical Analysis
2	Pedagogical knowledge of the content from classes VI to XII, Selecting of unit and breaking of sub-units	2	Pedagogical knowledge of the content from classes VI to XII, Selecting of unit and breaking of sub-units
3	Instructional objectives in behavioural terms	3	Instructional objectives in behavioural terms
4	Teaching learning strategies, Use of teaching aids	4	Teaching learning strategies, Use of teaching aids
5	Blue print for criterion referenced test items	5	Blue print for criterion referenced test items
6	Micro teaching and micro lesson, Simulated teaching, Integrated teaching	6	Micro teaching and micro lesson, Simulated teaching, Integrated teaching
7	Learning design- concept, importance,types,steps, qualities	7	Learning design- concept, importance,types,steps, qualities
8	Fair, exhibition,debate	8	Fair, exhibition,debate
9	Field trip, excursion,subject club, Wall and annual magazine	9	Field trip, excursion,subject club, Wall and annual magazine
10	Assessment and evaluation	10	Assessment and evaluation
11	Achievement test, textbook review	11	Achievement test, textbook review
12	Revision	12	Revision
13	Remedial Classes	13	Remedial Classes
14	Solving question papers	14	Solving question papers

Jafar Ali Saha
6/9/23

Mode of transaction: 1. Lectures, 2. Discussion, 3. Assignments, 4. Power point presentation. 5. Film related to topic 6. Practical work

Reference:

1. Pedagogy of Mathematics teaching- Dr. Madhumala Sengupta and others (Rita Publication)
2. Teaching of Mathematics-Dr. A.K. Kulshetra
3. Teaching of Physical Science- Dr. Radha Mohan

Jayashri Saha
6/9/22

**DEPARTMENT OF TEACHER EDUCATION
HOLY CROSS COLLEGE, AGARTALA**

STUDY PLAN

TEACHER: -Tapashi Saha

2nd Semester

C7a	C7a	C9
<p>Unit - 1 Foundation of Physical Science teaching</p> <ul style="list-style-type: none"> •Significance, meaning, nature & scope •Brief Historical background •Aims and objectives •Innovation in science teaching <p>Unit - 2 Strategies of science teaching</p> <ul style="list-style-type: none"> •Different methods of teaching •Lecture method •Interactive method •Demonstration method •Heuristic method •Project method •CAI method and problem solving •Laboratory method <p>Unit - 3 Learning Resources in Science Teaching</p> <ul style="list-style-type: none"> •Importance of learning resource 	<p>Unit - 1 Foundation of Maths teaching</p> <ul style="list-style-type: none"> •Significance, meaning, nature & scope •Brief Historical background •Aims and objectives •Innovation in mathematics teaching <p>Unit - 2 Strategies of mathematics teaching</p> <ul style="list-style-type: none"> •Different methods of teaching •Lecture method •Interactive method •Demonstration method •Heuristic method •Project method •CAI method and problem solving method •Analytic-synthetic method <p>Inductive and deductive method</p> <p>Unit - 3 Learning Resources in Mathematics Teaching</p>	<p>Unit-3 Appropriate tools for assessment</p> <p>Visualizing appropriate assessment tools for specific context, content& students</p> <p>Kinds of tasks(Project ,assignment, ABL)</p> <p>Kinds of tests(Teacher made and standardized test) and their construction with reference to blue print.</p> <p>Construction of a test-procedure followed</p> <p>Criteria of a good evaluation tool.Observation and its application in learning situation</p> <p>Unit 4- Data Analysis, Feedback reporting</p> <p>Statistical approaches</p> <p>Frequency distribution</p> <p>Graphical representation</p> <p>Central tendency</p>

Tapashi Saha
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<ul style="list-style-type: none"> •Science text books •Teaching aids in science •Science library •Science laboratory •Science teacher 	<p>Importance of learning resource</p> <ul style="list-style-type: none"> •Maths text books •Teaching aids in Maths •Maths library •Maths laboratory •Maths teacher 	<p>Measures of variability</p> <p>Normal distribution</p> <p>Correlation and its interpretation</p>
<p>Unit - 4 Evaluation in Science teaching</p> <ul style="list-style-type: none"> •Evaluation programme •CCE (Continuous & Comprehensive Evaluation) •Formative and summative evaluation •Diagnose and remediation •Achievement test-planning 	<p>Unit - 4 Evaluation in Maths teaching</p> <ul style="list-style-type: none"> •Evaluation programme •CCE (Continuous & Comprehensive Evaluation) •Formative and summative evaluation •Diagnose and remediation •Achievement test-planning 	

Jafar Ali Baha
1/3/23

4th Semester

C6	C11E1	EPC4
<p>UNIT-4 Gender, culture and institution: Curriculum and gender question, gender and the hidden curriculum Teacher as agent of change Life skills & sexuality</p> <p>UNIT-5 Development of sexuality, including primary influences in the life's of children (such as gender, body image, role models) Understanding the importance of addressing sexual harassment in family, neighbourhood & other formal & informal institution Institutions redressing sexual harassment and abuse</p>	<p>Unit 1 Educational and Vocational Guidance-meaning, definition, needs & scope Objectives of Guidance: Needs for guidance at various levels of education Types of guidance- Career, personal, individual & group guidance, group guidance techniques- class talk, career talk, orientation talk, group discussion, career conference, career corner, bulletin board, role play Modes or types of guidance services- orientation, information, placement, follow up & research & evaluation.</p> <p>UNIT-2 Counselling- meaning, nature, scope and objectives: relationship between guidance and counselling skills & qualities of an effective counsellor. Counselling techniques- person oriented and group oriented, cognitive and behavioural interventions & systematic intervention strategies. Areas of Counselling- family, parent, adolescent, counselling of girls, counselling of backward community children, counselling of children with special needs.</p>	<p>Unit 1-Self Concept-meaning, importance, influencing self-concept, development of self-concept</p>

Jafashi Sabo
1/3/23

Lesson plan-1

Class: B. Ed 2nd Semester

Paper: C7a – Pedagogy of School subject-Phy. Science/ Maths

C9-Assessment for learning

Course Content/Syllabus for Semester 1

Day	C7a Physical Science/Maths	Day	C9
1	Significance of Ph. Science/Maths teaching	1	Assessment tools
2	Aims and objectives, innovation in teaching	2	Different tasks
3	Lecture, interactive method	3	Construction of tests
4	Demonstration, Heuristic method	4	Procedure
5	School Observation	5	Procedure
6	Project, lab method	6	Blue print
7	CAI , problem solving method	7	Criteria of a good evaluation tool, Observation
8	Importance of learning resource	8	Mean
9	Science textbook, science library	9	Media
10	Teaching aid in science	10	Mode
11	Science laboratory, science teacher	11	Normal distribution
12	Evaluation & CCE	12	Central tendency
13	Formative and summative evaluation	13	Graphical representation
14	Diagnose and remediation	14	Variability
15	Achievement test planning	15	Correlation
16	Revision	16	Revision
17	Remedial classes	17	Remedial classes
18	Solving question papers	18	Solving question papers

Jafashi Saba
1/3/23

Mode of transaction: 1. Lectures, 2. Discussion, 3. Assignments, 4. Power point presentation. 5. Film related to topic.

Reference:

1. Pedagogy of Mathematics teaching- Dr. Madhumala Sengupta and others (Rita Publication)
2. Teaching of Mathematics-Dr. A.K. Kulashetra
3. Teaching of Physical Science- Dr. Radha Mohan
4. Statistics in Psychology and Education- S.K. Mangal

Jafarali Saha
1/3/23

Lesson plan-2

Class: B. Ed 4th Semester

C6- Gender, School and Society

C11E1-Guidance and Counselling in Education

Course Content/Syllabus for Semester3

Day	C6	Day	C11E1
1	Gender, culture, institution	1	Guidance, Counselling, difference
2	Gender & Curriculum	2	Educational, Vocational Guidance
3	Hidden curriculum	3	Types of guidance
4	Teacher as agent of change	4	Modes of guidance
5	Life skills and sexuality	5	Counselling techniques
6	Primary influence, body image, role model	6	Family, parent counselling
7	Addressing sexual harassment	7	Adolescent counselling
8	Sexual harassment, institution	8	Counselling of girls
9	EPC	9	Counselling of backward children
10	EPC	10	Counselling of special needs children
11	EPC	11	Revision
12	Revision	12	Case studies
13	Remedial classes	13	Remedial classes
14	Solving question papers	14	Solving question papers

Mode of transaction: 1. Lectures, 2. Discussion, 3. Assignments, 4. Power point presentation. 5. Film related to topic 6. Practical work

Reference:

1. Guidance and Counselling- Y.K. Singh
2. Gender, School and Society-Dr. Jayanta Mete (Rita Publications)

Japashi Saha
1/9/23

STUDY PLAN

TEACHER: -Dr.Tomina NS

PERIOD: - 1st April 2022 to 8th July & 5th September to 15th December

<p>1st Sem C4: language Across the Curriculum</p>	<p>1st Sem C5:Understanding Discipline and Subjects</p>	<p>2nd Sem C7a: Pedagogy of School Subject Part-1 English</p>	<p>2nd Sem C8a : Knowledge and Curriculum Part-1</p>	<p>3rd Sem C7b: pedagogy of school subject part-1i english</p>	<p>4th Semester C8b : knowledge and curriculum part-2</p>	<p>4th Semester C11: Educational Administration & Management</p>	<p>4th Sem EPC 4: Understanding The Self</p>
<p>Unit - 1 Understanding the language background of students Language: meaning, concepts & process of development</p>	<p>Unit - 2 •Language as a subject and discipline •Nature, history, method, understanding and place in the curriculum</p>	<p>Unit - 1 Foundation of Language teaching •Significance, meaning, nature & scope •Brief Historical background •Aims and objectives</p>	<p>Unit - 1 •Knowledge – meaning, Cnature, difference between knowledge and doing, thinking and feeling. •Difference between:</p>	<p>Unit - 1 Pedagogical Analysis Concepts and method of pedagogical Analysis Pedagogical knowledge of content from various classes VI to XII Selection of units and breaking of sub units</p>	<p>Unit - 1 Concept of democracy in school practices; interrelation between nationalism, internationalism & secularism and their</p>	<p>Unit - 1 Educational Administration- meaning purpose, objectives & scope: Functions of educational administration. Role & functions of Headmaster & teacher- qualities of</p>	<p>Unit - 2 Professional Identity of a teacher Identity of the self from gender, relational, cultural viewpoints Unit - 3</p>

<ul style="list-style-type: none"> • Function of language • Theory of language development- Chomsky, Bloomfield Unit - 2 •Language diversity in classroom •Bilingualism and Multi-lingualism – meaning, nature & characteristics •Understanding of multilingualism in the classroom 		<ul style="list-style-type: none"> •Innovation in language teaching Unit - 2 Strategies of language teaching •Different methods of teaching •Lecture method •Interactive method •Demonstration method •Heuristic method •Project method •CAI 	<p>Knowledge and skill;’ teaching and training;’ knowledge and information; reason and belief.</p> <p>Unit - 2</p> <ul style="list-style-type: none"> •Western thinkers of education- Plato, Dewey, Freire •Indian thinkers of education- Vivekananda, Tagore, Gandhi. Nature and processes of socialization- 	<p>Instructional objectives in behavioural terms</p> <p>Teaching learning strategies</p> <p>Use of Teaching Aids</p> <p>Blue print for criterion reference test items</p> <p>Unit - 2 Teaching Skills</p> <ul style="list-style-type: none"> • Micro Teaching and Micro lesson • Simulated Teaching • Integrated Teaching/ Teaching in class room situation <p>Unit - 3 Learning Design</p>	<p>implication</p>	<p>a Headmaster as educational administrator.</p> <p>Supervision- meaning, nature, scope & types of inspection: strategies to be taken for good inspection& supervision with reference to the schools in Tripura.</p> <p>Unit - 2 Educational Management- meaning, characteristics, need, scope & significance:</p>	<p>Self expression by exploring one’s dreams, aspirations, needs, concerns, life stories, poetry and humour, creative movement aesthetic representation etc</p>
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<p>•Home language & school language – their similarity & dissimilarity; 'standard' language vs. home 'dialects'.</p>		<p>method •Story telling.</p> <p>Unit - 3</p> <p>Learning Resources in Language Teaching</p> <p>•Importance of learning resource</p> <p>•Language text books •Teaching aids in language subjects</p> <p>•Language library</p> <p>•Language laboratory</p>	<p>(a)At home: family as a social institution; parenting style and their impact; transmission of parental expectations and values.</p> <p>(b)At community: neighbourhood, extended family, religious group and their socialization functions.</p> <p>(c) At school: impact of entry to school; school as</p>	<p>Concept, importance and types</p> <p>Steps of design</p> <p>Qualities of good learning design</p> <p>Unit - 4 Activities in Language</p> <p>Fair and exhibition</p> <p>Field trips/excursion</p> <p>Debate</p> <p>Wall and Annual magazine</p> <p>Subject club</p> <p>Unit - 5 Assessment of language Learning</p> <p>Concept of assessment and evaluation</p> <p>Achievement test</p> <p>Text book review</p>		<p>Educational Administration vs. Educational Management, components of constituents of Educational Maagement. Institutional Management-meaning, components: need & organizing co-curricular activities. Educational Planning- meaning, need, types, strategies & steps: Educational Finance- concept &</p>	
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		<ul style="list-style-type: none"> •Language teacher Unit - 4 Evaluation in Language teaching •Evaluation in programme •CCE (Continues & Comprehensive Evaluation) •Formative and summative evaluation •Diagnose and remediation •Achievement test-planning 	<p>a social institution; value formation in the context of schooling.</p> <p>(d) Understanding interface between home, community and school; inter-linkages within wider socio-cultural contexts.</p>			<p>scope: sources of income: educational expenditure: educational resources.</p>	
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DEPARTMENT OF TEACHER EDUCATION
HOLY CROSS COLLEGE, AGARTALA

STUDY PLAN

TEACHER: -Tapashi Saha

Ist Sem C1: Child and Growing up	1 st Sem C5: Understanding discipline and subjects	3 rd Sem C7b: pedagogy of school subject part-Ii english	3 rd Sem C7b: pedagogy of school subject part-Ii english
<p>Unit 3</p> <p>Childhood with diverse contexts-issues related to marginalization, childhood characteristics of children in slum areas, girl children in urban slum area, dalit children and exceptional children.</p> <p>Development characteristics of children from different socio- cultural & political background, problems of development faced by backward and minority children with special reference to Tripura.</p> <p>UNIT-5</p> <p>Experiences in childhood and adolescence- significance of gender, caste, role of parents and teachers in adolescence</p>	<p>UNIT-3</p> <p>Mathematics as a subject and discipline</p> <p>Nature, History, Method, Understanding, and Place in Curriculum</p>	<p>Unit - 1</p> <p>Pedagogical Analysis</p> <p>Concepts and method of pedagogical Analysis</p> <p>Pedagogical knowledge of content from various classes VI to XII</p> <p>Selection of units and breaking of sub units</p> <p>Instructional objectives in behavioural terms</p> <p>Teaching learning strategies</p> <p>Use of Teaching Aids</p>	<p>Unit - 1</p> <p>Pedagogical Analysis</p> <p>Concepts and method of pedagogical Analysis</p> <p>Pedagogical knowledge of content from various classes VI to XII</p> <p>Selection of units and breaking of sub units</p> <p>Instructional objectives in behavioural terms</p> <p>Teaching learning strategies</p> <p>Use of Teaching Aids</p>

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<p>Individual differences:nature, causes, understanding,differences based on diversity of language,caste, gender, community, religion, etc</p>		<p>Blue print for criterion reference test items</p> <p>Unit - 2</p> <p>Teaching Skills</p> <ul style="list-style-type: none"> ● Micro Teaching and Micro lesson ● Simulated Teaching ● Integrated Teaching/ Teaching in class room situation <p>Unit - 3</p> <p>Learning Design</p> <p>Concept, importance and types</p> <p>Steps of design</p> <p>Qualities of good learning design</p>	<p>Blue print for criterion reference test items</p> <p>Unit - 2</p> <p>Teaching Skills</p> <ul style="list-style-type: none"> ● Micro Teaching and Micro lesson ● Simulated Teaching ● Integrated Teaching/ Teaching in class room situation <p>Unit - 3</p> <p>Learning Design</p> <p>Concept, importance and types</p> <p>Steps of design</p> <p>Qualities of good learning design</p>
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Jafarshi Saha
6/9/22

		Unit - 4 Activities in Language Fair and exhibition Field trips/excursion Debate Wall and Annual magazine Subject club	Unit - 4 Activities in Language Fair and exhibition Field trips/excursion Debate Wall and Annual magazine Subject club
		Unit - 5 Assessment of language Learning Concept of assessment and evaluation Achievement test Text book review	Unit - 5 Assessment of language Learning Concept of assessment and evaluation Achievement test Text book review

Jyoti Saha
6/9/22

Lesson plan-1

Class: B. Ed 1st Semester

Paper: C1, Child and growing up

Paper: C5, Understanding subjects

Course Content/Syllabus for Semester 1

Day	C1	Date	C5
1	Characteristic of childhood and adolescent period Child development skill	1	Maths as a subject and discipline, Nature, History
2	Physical development in school age children, Social Development	2	Methods of teaching
3	Marginalization, Marginalized groups, Actions of marginalization, Impact of marginalization	3	Understanding and place in curriculum of maths
4	Marginalization children, Slum and impact, Slum child and experience, Girl child of urban slum area, Education & Slum Child	4	Revision
5	Dalit and discrimination	5	Remedial Classes
6	Exceptional children, Disabled children	6	Solving question papers
7	Agents of Socialization, Socio Culture influence on Development, Problems of development in Tripura		
8	Understanding childhood & adolescence, Characteristics		
9	Significance of gender, caste, Role of parents, Role of teachers		
10	Individual differences Nature, causes,		
11	Understanding differences, Diversity		

Japashli Saha
6/9/22

	of language, Caste, gender, Community, religion		
12	Revision		
13	Remedial Classes		
14	Solving question papers		

Mode of transaction: 1. Lectures, 2. Discussion, 3. Assignments, 4. Power point presentation. 5. Film related to topic.

Reference:

Aggarwal, J. C. (2008). *Essentials of Educational Psychology*. Noida: Vikash Publishing House.

Bhattacharyya, D. (2008). *Sociology*. Kolkata: Vijaya Publishing House.

Chattopadhyaya Dr. K. et al Understanding Discipline and subject : Aaheli Publishers

Chakravorty Dr. P.K. Understanding Discipline and subjects (Bengali) : Rita Publications.

Dhar, Dr. D. et al, Understanding Discipline and subjects (Bengali) ;Rita Prakashan

Mete, Dr. J. Child and growing up (Bengali): Rita Publication

Nag, S., & Nag, D. S. (2017). *Childhood and growing up*. Kolkata: Rita Publications.

Nagasurendran. (2017, October). *Marginalised children: Issues and concerns*. Retrieved from <http://surendranedu.wordpress.com>

Paul, Dr D : Child and growing up (Bengali): Rita Publication

Roy, R. (2007). *Ethno-Pedagogy*. Delhi: Shipra Publications.

Sameer, M. N. (2016). *Childhood and Growing up*. Delhi: Educational Publishers and Distributors.

Sengupta Dr. M- Understanding Discipline and subjects : Rita Publication

Taj, D. H. (2007). *An Introduction to Social Psychology*. Hyderabad, New Delhi: Neelkamal Publications Pvt. Ltd.

Williams, J. (2007). *Cultural and Social factors that affect development*. Retrieved from <https://makewealthhistory.org>

Tapasvi Saha
6/9/22

Lesson plan-2

Class: B. Ed 3rd Semester

Paper: C7b, Pedagogy of School Subject

(Physical Science, Mathematics)

Course Content/Syllabus for Semester3

Day	C7b Phy. Sc.	Day	C7b Maths
1	Concept and method of Pedagogical Analysis	1	Concept and method of Pedagogical Analysis
2	Pedagogical knowledge of the content from classes VI to XII, Selecting of unit and breaking of sub-units	2	Pedagogical knowledge of the content from classes VI to XII, Selecting of unit and breaking of sub-units
3	Instructional objectives in behavioural terms	3	Instructional objectives in behavioural terms
4	Teaching learning strategies, Use of teaching aids	4	Teaching learning strategies, Use of teaching aids
5	Blue print for criterion referenced test items	5	Blue print for criterion referenced test items
6	Micro teaching and micro lesson, Simulated teaching, Integrated teaching	6	Micro teaching and micro lesson, Simulated teaching, Integrated teaching
7	Learning design- concept, importance,types,steps, qualities	7	Learning design- concept, importance,types,steps, qualities
8	Fair, exhibition,debate	8	Fair, exhibition,debate
9	Field trip, excursion,subject club, Wall and annual magazine	9	Field trip, excursion,subject club, Wall and annual magazine
10	Assessment and evaluation	10	Assessment and evaluation
11	Achievement test, textbook review	11	Achievement test, textbook review
12	Revision	12	Revision
13	Remedial Classes	13	Remedial Classes
14	Solving question papers	14	Solving question papers

Jafar Ali Saha
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Mode of transaction: 1. Lectures, 2. Discussion, 3. Assignments, 4. Power point presentation. 5. Film related to topic 6. Practical work

Reference:

1. Pedagogy of Mathematics teaching- Dr. Madhumala Sengupta and others (Rita Publication)
2. Teaching of Mathematics-Dr. A.K. Kulshetra
3. Teaching of Physical Science- Dr. Radha Mohan

Japashi Saha
6/9/22

**DEPARTMENT OF TEACHER EDUCATION
HOLY CROSS COLLEGE, AGARTALA**

STUDY PLAN

TEACHER: -Tapashi Saha

2nd Semester

C7a	C7a	C9
<p>Unit - 1 Foundation of Physical Science teaching</p> <ul style="list-style-type: none"> •Significance, meaning, nature & scope •Brief Historical background •Aims and objectives •Innovation in science teaching <p>Unit - 2 Strategies of science teaching</p> <ul style="list-style-type: none"> •Different methods of teaching •Lecture method •Interactive method •Demonstration method •Heuristic method •Project method •CAI method and problem solving •Laboratory method <p>Unit - 3 Learning Resources in Science Teaching</p> <ul style="list-style-type: none"> •Importance of learning resource 	<p>Unit - 1 Foundation of Maths teaching</p> <ul style="list-style-type: none"> •Significance, meaning, nature & scope •Brief Historical background •Aims and objectives •Innovation in mathematics teaching <p>Unit - 2 Strategies of mathematics teaching</p> <ul style="list-style-type: none"> •Different methods of teaching •Lecture method •Interactive method •Demonstration method •Heuristic method •Project method •CAI method and problem solving method •Analytic-synthetic method <p>Inductive and deductive method</p> <p>Unit - 3 Learning Resources in Mathematics Teaching</p>	<p>Unit-3 Appropriate tools for assessment</p> <p>Visualizing appropriate assessment tools for specific context, content& students</p> <p>Kinds of tasks(Project ,assignment, ABL)</p> <p>Kinds of tests(Teacher made and standardized test) and their construction with reference to blue print.</p> <p>Construction of a test-procedure followed</p> <p>Criteria of a good evaluation tool.Observation and its application in learning situation</p> <p>Unit 4- Data Analysis, Feedback reporting</p> <p>Statistical approaches</p> <p>Frequency distribution</p> <p>Graphical representation</p> <p>Central tendency</p>

Tapashi Saha
1/3/23

<ul style="list-style-type: none"> •Science text books •Teaching aids in science •Science library •Science laboratory •Science teacher 	<p>Importance of learning resource</p> <ul style="list-style-type: none"> •Maths text books •Teaching aids in Maths •Maths library •Maths laboratory •Maths teacher 	<p>Measures of variability</p> <p>Normal distribution</p> <p>Correlation and its interpretation</p>
<p>Unit - 4 Evaluation in Science teaching</p> <ul style="list-style-type: none"> •Evaluation programme •CCE (Continuous & Comprehensive Evaluation) •Formative and summative evaluation •Diagnose and remediation •Achievement test-planning 	<p>Unit - 4 Evaluation in Maths teaching</p> <ul style="list-style-type: none"> •Evaluation programme •CCE (Continuous & Comprehensive Evaluation) •Formative and summative evaluation •Diagnose and remediation •Achievement test-planning 	

Jafar Ali Baha
1/3/23

4th Semester

C6	C11E1	EPC4
<p>UNIT-4 Gender, culture and institution: Curriculum and gender question, gender and the hidden curriculum Teacher as agent of change Life skills & sexuality</p> <p>UNIT-5 Development of sexuality, including primary influences in the life's of children (such as gender, body image, role models) Understanding the importance of addressing sexual harassment in family, neighbourhood & other formal & informal institution Institutions redressing sexual harassment and abuse</p>	<p>Unit 1 Educational and Vocational Guidance-meaning, definition, needs & scope Objectives of Guidance: Needs for guidance at various levels of education Types of guidance- Career, personal, individual & group guidance, group guidance techniques- class talk, career talk, orientation talk, group discussion, career conference, career corner, bulletin board, role play Modes or types of guidance services- orientation, information, placement, follow up & research & evaluation.</p> <p>UNIT-2 Counselling- meaning, nature, scope and objectives: relationship between guidance and counselling skills & qualities of an effective counsellor. Counselling techniques- person oriented and group oriented, cognitive and behavioural interventions & systematic intervention strategies. Areas of Counselling- family, parent, adolescent, counselling of girls, counselling of backward community children, counselling of children with special needs.</p>	<p>Unit 1-Self Concept-meaning, importance, influencing self-concept, development of self-concept</p>

Jafashi Sabo
1/3/23

Lesson plan-1

Class: B. Ed 2nd Semester

Paper: C7a – Pedagogy of School subject-Phy. Science/ Maths

C9-Assessment for learning

Course Content/Syllabus for Semester 1

Day	C7a Physical Science/Maths	Day	C9
1	Significance of Ph. Science/Maths teaching	1	Assessment tools
2	Aims and objectives, innovation in teaching	2	Different tasks
3	Lecture, interactive method	3	Construction of tests
4	Demonstration, Heuristic method	4	Procedure
5	School Observation	5	Procedure
6	Project, lab method	6	Blue print
7	CAI , problem solving method	7	Criteria of a good evaluation tool, Observation
8	Importance of learning resource	8	Mean
9	Science textbook, science library	9	Media
10	Teaching aid in science	10	Mode
11	Science laboratory, science teacher	11	Normal distribution
12	Evaluation & CCE	12	Central tendency
13	Formative and summative evaluation	13	Graphical representation
14	Diagnose and remediation	14	Variability
15	Achievement test planning	15	Correlation
16	Revision	16	Revision
17	Remedial classes	17	Remedial classes
18	Solving question papers	18	Solving question papers

Jafashi Saha
1/3/23

Mode of transaction: 1. Lectures, 2. Discussion, 3. Assignments, 4. Power point presentation. 5. Film related to topic.

Reference:

1. Pedagogy of Mathematics teaching- Dr. Madhumala Sengupta and others (Rita Publication)
2. Teaching of Mathematics-Dr. A.K. Kulashetra
3. Teaching of Physical Science- Dr. Radha Mohan
4. Statistics in Psychology and Education- S.K. Mangal

Jafarali Saha
1/3/23

Lesson plan-2

Class: B. Ed 4th Semester

C6- Gender, School and Society

C11E1-Guidance and Counselling in Education

Course Content/Syllabus for Semester3

Day	C6	Day	C11E1
1	Gender, culture, institution	1	Guidance, Counselling, difference
2	Gender & Curriculum	2	Educational, Vocational Guidance
3	Hidden curriculum	3	Types of guidance
4	Teacher as agent of change	4	Modes of guidance
5	Life skills and sexuality	5	Counselling techniques
6	Primary influence, body image, role model	6	Family, parent counselling
7	Addressing sexual harassment	7	Adolescent counselling
8	Sexual harassment, institution	8	Counselling of girls
9	EPC	9	Counselling of backward children
10	EPC	10	Counselling of special needs children
11	EPC	11	Revision
12	Revision	12	Case studies
13	Remedial classes	13	Remedial classes
14	Solving question papers	14	Solving question papers

Mode of transaction: 1. Lectures, 2. Discussion, 3. Assignments, 4. Power point presentation. 5. Film related to topic 6. Practical work

Reference:

1. Guidance and Counselling- Y.K. Singh
2. Gender, School and Society-Dr. Jayanta Mete (Rita Publications)

Japashli Saha
1/9/23

DEPARTMENT OF TEACHER EDUCATION

HOLY CROSS COLLEGE, AGARTALA

TEACHER- DR. BISWARUPA DATTA

STUDY PLAN

[MARKS: THEORY-25, PRACTICUM- 25]

SECOND SEMESTER

EPC: 2 – DRAMA AND ARTS IN EDUCATION

PERIOD: 1ST JUNE 2022 – 31ST MAY 2023

UNIT - 1	UNIT - 2	UNIT - 3
<p>Meaning and concepts of Arts [Visual and performing] and its significance at secondary level of school education.</p> <p>Distinguish between visual and performing Arts.</p> <p>Difference between Education in arts and arts in education.</p>	<p>Identification of different performing art forms [dance, music, musical instruments, theatre, drama, puppetry etc.] and visual arts.</p> <p>Primary discussion and acquaintance with types</p>	<p>Indian festivals and their artistic significance with special reference to Tripura [with illustrations].</p> <p>Engagement with field/practicum: Any one of the following-</p> <ul style="list-style-type: none">➤ Experimentation with different materials of visual arts such as pastel, poster, pen, and ink, rangoli materials, clay etc.➤ proportion and experimentation with different methods of visual arts like painting, collage, clay, drawing paper, cutting, and folding etc.➤ Listening/viewing and exploring regional art forms of music, dance, and drama. participation and performance in any one of the regional art forms keeping in mind the integrated approach. Planning a stage-setting for a performance/presentation by the student teachers.➤ Project work and workshop: Theme based projects from any of the curricular areas covering its social, economic, cultural, and scientific aspects integrating various art forms.

Study Plan - 1

Class:- B.Ed 4th semester

Paper:- EPC: 4 Understanding the self

Learning objectives:

The students - teachers will be able to:

- I. Know about the self concept and development of self concept.
- II. Gain a deeper knowledge and understanding about professional identity of teacher.

Course content/ syllabus for presentation

Date: 10-03-2023 to 26-05-2023

Sl. No	Understanding the self	Assessment
1	Self concept I. Meaning II. Importance	Assignment
2	Discussion on I. Professional identity of a teacher II. Identity of gender III. With cultural viewpoints	Group discussion
3	Self expression's I. Dreams II. Aspirations III. Needs	Individual Presentation
4	Yoga	Practical

Mode of Teaching, Lectures, Discussion, Assignments.

Dipriti Tripura
Teacher: Dipriti Tripura

Study Plan - 2

Class:- B.Ed 4th semester

Paper:- C:6 Gender, School and Society

Learning objectives:

The students - teachers will be able to:

- I. Know about the Historical backdrop of 19th centuries.
- II. Get deeper understanding of Women's education.
- III. Grab knowledge about recommendations.
- IV. Gain deeper understanding of Genders.

Course content/ syllabus for presentation

Date: 10-03-2023 to 26-05-2023

Sl. No	Gender, School and Society	Assessment
1	Social reforms movements of 19th century I. Women's education II. Social reformers ❖ Raja Ram Mohan Roy ❖ Jyotiba Phule	Presentation
2	Contemporary period I. Recommendations II. Schemes III. Implication, Plans	Group discussion
3	Gender identities I. family II. Schools III. Schooling of girls	Assignment

Mode of Teaching, Presentation, Group discussion, Assignments.

Dipriti Tripura
Teacher: Dipriti Tripura

Study Plan - 3

Class:- B.Ed 2nd semester
Paper:- C:3 Learning and Teaching

Learning objectives:

The students - teachers will be able to:

- I. Understanding about learning in school.
- II. Understanding about learning inside and outside school.
- III. Know about diverse classroom.

Course content/ syllabus for presentation

Date: 10-03-2023 to 26-05-2023

Sl. No	Learning and Teaching	Assessment
1	Learning inside and outside school I. Nature II. Barriers faced by learners III. Role of Teacher in teaching	Assignment
2	Analyzing teaching in diverse classroom I. Diverse classroom II. Relation between learners and teachers	Project
3	Teaching as profession I. Meaning II. Characteristics	Presentation

Mode of Teaching, Assignment, Project, Presentation

Dipriti Tripura.
Teacher: Dipriti Tripura

Study Plan - 4

Class:- B.Ed 2nd semester

Paper:- C7a: Pedagogy of School Subject

Learning objectives:

The students - teachers will be able to:

- I. Know about the meaning, nature and scope of history.
- II. Grab knowledge of different teaching method of history.
- III. Know important resources of history teaching.
- IV. Grab knowledge about evaluation in history teaching.

Course content/ syllabus for presentation

Date: 10-03-2023 to 26-05-2023

Sl. No	Pedagogy of School Subject	Assessment
1	Historical background I. Aims and objectives of history II. Innovation in teaching history	Project
2	Methods of teaching history I. Lecture II. Interactive III. Demonstration IV. Project etc	Assignment
3	Importance of resources I. Teaching aids II. Library III. Text Books	Preparing TLM
4	Program of Evaluation I. CCE II. Achivement test III. Formative and summative IV. Diagnose and remediation	Presentation

Mode of Teaching, Project, Assignment, Preparing TL, Presentation.

Dipriti Tripura
Teacher: Dipriti Tripura

Lesson Plan - 1

B.Ed 1st Semester

Subject: Learning and Teaching

Paper: C3

Sl. No	Date	Content	Method	Teaching material / aids
1	10-03-2023	Concept nature of learning inside and outside school	Lecture	PPT
2	13-03-2023	Barrier faced by the learners in school	Lecture	PPT
3	14-03-2023	Role of a teacher in developing learning	Lecture	PPT
4	15-03-2023	Concept of diverse classroom	Discussion	PPT
5	16-03-2023	Developing values among the learners	Lecture	PPT
6	20-03-2023	Concept of teaching as a profession and meaning	Lecture	PPT
7	21-03-2023	Characteristic of professionals lecture qualities of a teacher	Lecture	PPT

Activities: Assignment, Group Discussion

Dipriti Tripura
Teacher: Dipriti Tripura

Lesson Plan - 2

B.Ed 2nd Semester

Subject: Pedagogy of School Subject

Paper: C7a

Sl. No	Date	Content	Method	Teaching aids
1	21-03-2023	Concept nature and scope of history	Lecture	PPT
2	22-03-2023	Historical background and objectives	Lecture	ppt and showing model
3	23-03-2023	Innovative way of teaching history	Lecture	ppt and showing model
4	24-03-2023	Different methods of teaching history	Lecture	ppt and showing model
5	2 5-03-2023	Importance of learning resource in history	Lecture, Discussion	ppt and showing model
6	27-03-2023	Different evaluation program	Lecture	PPT and showing model

Activities: Assignment, Presentation.

Dipriti Tripura
Teacher: Dipriti Tripura

Lesson Plan - 3

B.Ed 4th Semester

Subject: Understanding the self

Paper: EPC 4

Sl. No	Date	Content	Method	Teaching aids
1	10-04-2023	Concept, meaning and importance of self	Lecture	PPT
2	11-04-2023	Identity of self from Gender, Relational and Cultural viewpoint	Lecture	PPT
3	12-04-2023	Expressing of self exploring of one's dream's, needs	Lecture	PPT and Blackboard
4	17-04-2023	Representation of aesthetic creative movement	Lecture	PPT

Activities: Project, Presentation, Group Discuss and Debate.

Dipriti Tripura.
Teacher: Dipriti Tripura

Lesson Plan - 4

B.Ed 4th Semester

Subject: Gender, School and Society

Paper: C6

Sl. No	Date	Content	Method	Teaching aids
1	29-03-2023	Historical background on social reform movements of 19th century	Lecture and discussion	PPT
2	31-03-2023	Women's Education (Merit and Demerit)	Lecture	PPT
3	03-04-2023	Recommendation of contemporary period	Lecture	PPT
4	04-04-2023	Concept of Gender identities and socialization practices	Lecture	PPT
5	05-04-2023	Socialization practice in family, schools, formal and informal organization, schooling of girls	Lecture	PPT

Activities: Assignment, Individual Presentation.

Dipriti Tripura,
Teacher: Dipriti Tripura

STUDY PLAN

By

DR. DIPANWITA CHAUDHURI SIL

Assistant Professor

Department of Botany

Holy Cross College, Agartala

Session: september, 2022- March, 2023

1st Semester Botany Honours

Name of the Teacher: Dipanwita Chaudhuri sil

Month	Topic Name	Lesson Name	Status	Study materials
October	Industrial Botany	Origin of life, Difference between plant and animal cell. Three domains of classification – Archaea, Bacterial Eukaryota.	Completed	Uploaded in the google classroom
November	Industrial Botany	History of Plant classification: Natural (Bentham & Hooker) and Artificial (Linnaeus).	Completed	Uploaded in the Google Classroom
December	Industrial Botany – II	History of Plant classification: Phylogenetic (Hutchinson) system of Classification. Plant life cycle pattern & alternation of generation.	Completed	Uploaded in the Google Classroom
January	Remedial Classes			
February, March	Tripura University Examination			
Assessment	• Class test, Assignment, Presentation, Group Discussion			

1st Semester Botany General

Name of the Teacher: DR. Dipanwita Chaudhuri sil

Month	Topic Name	Lesson Name	Status	Study materials
October	Industrial Botany – II	Origin of life, Difference between plant and animal cell. Time line of plant evolution. Three domains of classification – Archaea, Bacterial Eukaryota.	Completed	Uploaded in the google classroom
November	Industrial Botany – II	History of Plant classification: Natural (Bentham & Hooker) and Artificial (Linnaeus)	Completed	Uploaded in the Google Classroom
December	Industrial Botany – II	History of Plant classification: Phylogenetic (Hutchinson) system of Classification. Plant life cycle pattern & alternation of generation.	Completed	Uploaded in the Google Classroom
January	Remedial Classes			

February, March	Tripura University Examination
Assessment	•Classtest, Assignment, Presentation, Group Discussion

3rd Semester Botany Honours

Name of the Teacher: Dipanwita Chaudhuri sil

Month	Topic Name	Lesson Name	Status	Study materials
October	Microbiology and Plant pathology	General account of Phycomycetes, Life history of <i>Mucor</i> , <i>Synctitricum</i> ; General account of Ascomycetes, Life history of <i>Pecicillium</i> , <i>Ascobolus</i> ;	Completed	Uploaded in the google classroom
November	Microbiology and Plant pathology	General account of Deuteromycetes, Life history of <i>Fusarium</i> , Cereal – Rice, Wheat; Pulses – Gram, Moong and Lens	Completed	Uploaded in the Google Classroom
December	Microbiology and Plant pathology	Beverages – Tea and Coffee; Fruits – Mango, Citrus and Papaya; Drug yielding – Cinchona, Rauwolfia, Digitalis and Papaver; Spices – Ginger, Cumin and Clove; Oil yielding – Mustard, Groundnut, Coconut and Linseed	Completed	Uploaded in the Google Classroom
January	Remedial Classes			
February, March	Tripura University Examination			
Assessment	<ul style="list-style-type: none"> •Classtest, •Assignment, •Presentation, •Group Discussion 			

3rd Semester Botany General

Name of the Teacher: Dipanwita Chaudhuri sil

Month	Topic Name	Lesson Name	Status	Study materials
October	Microbiology and Plant pathology	General account of Phycomycetes, Life history of <i>Mucor</i>	Completed	Uploaded in the Google Classroom
November	Microbiology and Plant pathology	General account of Deuteromycetes, Life history of <i>Fusarium</i> ,	Completed	Uploaded in the Google Classroom
December	Microbiology and Plant pathology	Cereal – Rice, Wheat; Pulses – Gram, Moong and Lens; Beverages – Tea and Coffee; Fruits – Mango, Citrus and Papaya; Drug yielding – Cinchona, Rauwolfia, Digitalis and Papaver:	Completed	Uploaded in the Google Classroom
January	Remedial Classes			
February, March	Tripura University Examination			
Assessment	<ul style="list-style-type: none">• Class test,• Assignment,• Presentation,• Group Discussion			

5th Semester Botany Honours

Name of the Teacher: Dipanwita Chaudhuri sil

Month	Topic Name	Lesson Name	Status	Study materials
October	Cytogenetics	Chromosome morphology and Organization of Eukaryotic Chromosome (Nucleosome concept); Centromere and telomere – structure and function;	Completed	Uploaded in the google classroom
November	Cytogenetics	Morphology of RNAe, forms salient features of Nucleic Acids (DNA and RNA); Structure forms and salient features of Nucleic Acids (DNA and RNA); DNA replication, Mechanism of DNA replication in Prokaryotes, Lac Operon (brief idea). Totipotency and concept of plant tissue culture; Function and organization of a typical plant tissue culture laboratory	Completed	Uploaded in the Google Classroom
December	Cytogenetics & Plant Breeding	Cell cycle and Cell division, Structure and function of Cell Organelles (Nucleus, Mitochondria, Chloroplast, Ribosome)	Completed	Uploaded in the Google Classroom
January	Remedial Classes			
February, March	Tripura University Examination			
Assessment	<ul style="list-style-type: none"> • Class test, • Assignment, • Presentation, • Group Discussion 			

5th Semester Botany General

Name of the Teacher: Dipanwita Chaudhuri sil

Month	Topic Name	Lesson Name	Status	Study materials
October	Cell Biology, Molecular Biology, Cytogenetics Plant Breeding	Cell cycle and Cell division, Structure and function of Cell Organelles (Nucleus, Mitochondria, Chloroplast, Ribosome) 2022	Completed	Uploaded in the google classroom
November	Cell Biology, Molecular Biology, Cytogenetics Plant Breeding	Cell cycle and Cell division, Structure and function of Cell Organelles (Nucleus, Mitochondria, Chloroplast, Ribosome)	Completed	Uploaded in the Google Classroom
December	Cell Biology, Molecular Biology, Cytogenetics Plant Breeding	Methods of plant breeding: Introduction, emasculation, Techniques of plant tissue culture: cell suspension culture technique, protoplast culture technique; Modes of <i>in vitro</i> regeneration and applications; Callus culture and applications; Haploid and embryo culture;	Completed	Uploaded in the Google Classroom
January	Remedial Classes			
February, March	Tripura University Examination			
Assessment	<ul style="list-style-type: none"> • Class test, • Assignment, • Presentation, • Group Discussion 			

STUDY PLAN

By

DR. DIPANWITA CHAUDHURI SIL

Assistant Professor

Department of Botany

Holy Cross College, Agartala

Session: April, 2022- August, 2022

2ND SEMESTER BOTANY HONOURS, 2022

Name of the Teacher: Dr. Dipanwita Chaudhuri Sil

Month	Topic Name	Lesson Name	Status	Study Materials
July	Bryophyte	General characteristics of Bryophytes,, Origin of Bryophytes, Amphibian nature .	Completed	Uploaded in the google classroom
August	Bryophyte	Life history: Gametophyte structure & reproduction, Development of Sporophyte, Spore dispersal of <i>Marchantia</i> , <i>Riccia</i> , <i>Anthoceros</i>	Completed	Uploaded in the Google Classroom
September	Bryophyte	Pellia ,Porella Evolution of sporophyte - Progressive theory.	Completed	Uploaded in the Google Classroom
Assessment	• Classtest, Assignment, Presentation, Group Discussion			

4TH SEMESTER BOTANY HONOURS, 2022

Name of the Teacher: Dr. Dipanwita Chaudhuri Sil

Month	Topic Name	Lesson Name	Status	Study Materials
July	Morphology	Flower types, floral parts- calyx, corolla (Forms and aestivation), stamens (cohesion and adhesion)	Completed	Uploaded in the google classroom
August	Morphology	Carpel (Apocarpous and Syncarpous), Aestivation ,	Completed	Uploaded in the google classroom
September	Taxonomy	Angiospermic families Asteraceae, Poaceae, Liliaceae	Completed	Uploaded in the google classroom
Assessment	• Classtest, Assignment, Presentation, Group Discussion			

6TH SEMESTER BOTANY HONOURS, 2022

Name of the Teacher: Dr. Dipanwita Chaudhuri sil				
Month	Topic Name	Lesson Name	Status	Study materials
July	Tissue culture	Totipotency and concept of plant tissue culture; Function and.	Completed	Uploaded in the google classroom
August	Tissue culture	plant tissue culture laboratory; Techniques of plant tissue culture: cell suspension culture technique, protoplast culture technique	Completed	Uploaded in the google classroom
September	Tissue culture	Callus culture and applications; Haploid Culture Protoplast culture technique	Completed	Uploaded in the google classroom
Assessment	• Classtest, Assignment, Presentation, Group Discussion			

2ND SEMESTER BOTANY GENERAL, 2022

Name of the Teacher: Dr. Dipanwita Chaudhuri sil				
Month	Topic Name	Lesson Name	Status	Study materials
July	Bryophyte	General characteristics of Bryophytes,, Origin of Bryophytes, Amphibian nature	Completed	Uploaded in the Google classroom
August	Bryophyte	Gametophyte structure & reproduction, Development of sporophyte, Spore dispersal of <i>Marchantia</i> , <i>Anthocero</i>	Completed	Uploaded in the Google Classroom
Septem	Bryophyte	Gametophyte structure & reproduction, Development of sporophyte, Spore dispersal of <i>Pellia</i> , <i>Porella</i>	Completed	Uploaded in the Google Classroom
Assessment	• Classtest, Assignment, Presentation, Group Discussion			

4TH SEMESTER BOTANY GENERAL, 2022

Name of the Teacher: Dipanwita Chaudhuri

Month	Topic Name	Lesson Name	Status	Study materials
July	Morphology	Morphology- Inflorescence- types with examples, flower types, floral parts- calyx, corolla (Forms and aestivation), stamens (cohesion and adhesion)	Completed	Uploaded in the google classroom
August	Morphology	carpel (Apocarpous and Syncarpous), Placentation types,	Completed	Uploaded in the google classroom
September	Morphology and taxonomy	Angiospermic families	Completed	Uploaded in the Google classroom
Assessment	• Class test, Assignment, Presentation, Group Discussion			

6TH SEMESTER BOTANY HONOURS PROJECT, 2022

Name of the Teacher: Dr Dipanwita Chaudhuri Sil		
Month	Topic Name	Status
July	Students project	completed
August	Students project	completed
September	Projects submission and Viva-voce	Completed
Assessment	• Presentation, Group Discussion	

STUDY PLAN

By

Dr. Debasree Lodh

Assistant Professor
Department of Botany
Holy Cross College, Agartala

Session: April, 2023 - August, 2023

2ND SEMESTER BOTANY HONOURS, 2023

Name of the Teacher: DR. DEBASREE LODH				
Month	Topic Name	Lesson Name	Status	Study materials
April	Algae	General account, Thallus organization. Ultra-structure of plastid & flagella, Origin & evolution of sex.	Completed Completed	Uploaded in the google classroom
May	Algae	Salient features of Charophyceae, Life history of <i>Chara</i> . Salient features of Chlorophyceae, Life history of <i>Chlamydomonas</i> , <i>Oedogonium</i> . Outline classification (Lee-1999) up to phylum with characters.	Completed Completed Completed Completed	Uploaded in the Google Classroom
June	Algae	Economic importance of algae. Salient features of Phaeophyceae, Life history of <i>Ectocarpus</i> . Salient features of Xanthophyceae, Life history of <i>Voucheria</i> . Bacillariophyceae (Diatom), Cell structure, Auxospore formation in Centrales and Pennales. Salient features of Rhodophyceae, Life history of <i>Polysiphonia</i> .	Completed Completed Yet to be completed Yet to be completed	Uploaded in the Google Classroom
July	Remedial Classes/ Revision Classes			
Assessment	<ul style="list-style-type: none"> • Class test • Assignment • Presentation • Group Discussion 			
Materials Needed:	<ul style="list-style-type: none"> • Projection system • Board for Demonstration Problems 			

4TH SEMESTER BOTANY HONOURS, 2023

Name of the Teacher: DR. DEBASREE LODH				
Month	Topic Name	Lesson Name	Status	Study materials
April	Anatomy	Anatomy -Cell wall (Gross structure and chemical composition), Meristematic and	Completed	Uploaded in the google classroom
May	Tissue & Vascular bundle	Permanent tissue (structure, distribution and function); Vascular bundles- types, stele- types and evolution, Normal secondary growth	Completed Completed Completed Completed	Uploaded in the google classroom
June	Anomalous secondary growth	Anomalous secondary growth (Stems of <i>Boerhaavia</i> , <i>Chenopodium</i> , <i>Mirabilis</i> , <i>Bignonia</i> , <i>Nyctanthes</i> , Root of <i>Tinospora</i>)	Completed Yet to be completed Yet to be completed	-
July	Remedial Classes/ Revision Classes			
Assessment	<ul style="list-style-type: none"> •Class test •Assignment •Presentation •Group Discussion 			
Materials Needed:	<ul style="list-style-type: none"> •Projection system •Board for Demonstration Problems 			

6TH SEMESTER BOTANY HONOURS, 2023

Name of the Teacher: DR. DEBASREE LODH				
Month	Topic Name	Lesson Name	Status	Study materials
April	Biochemistry	Structure and properties of water, co-valent and non-covalent bonds, hydrogen bonds, Vander Waal's forces, pH, buffer and isoelectric points.	Completed Completed Completed Completed	Uploaded in the google classroom
May	Biochemistry	Carbohydrate: Classification, structure and properties; Lipids: Classification and function: Protein: Classification and structure (Primary, Secondary, Tertiary and Quaternary structure); Amino acids: Structure, charge and polarity; essential amino-acids;	Completed Completed Completed Completed	Uploaded in the google classroom
June	Biochemistry	Enzyme: Classification and function, Isozymes, Allosteric enzymes and Coenzymes; Glycolysis, conversion of pyruvic acid to Acetyl Co-A, TCA cycle; Membrane chemistry, transport and mechanism of ion uptake;	Completed	Uploaded in the google classroom
July	Remedial Classes/ Revision Classes			
Assessment	<ul style="list-style-type: none"> •Class test •Assignment •Presentation •Group Discussion 			
Materials Needed:	<ul style="list-style-type: none"> •Projection system •Board for Demonstration Problems 			

2ND SEMESTER BOTANY GENERAL, 2023

Name of the Teacher: DR. DEBASREE LODH				
Month	Topic Name	Lesson Name	Status	Study materials
April	Algae	General account, Thallus organization. Economic importance of algae.	Completed Completed	Uploaded in the google classroom
May	Algae	Life history of <i>Chara</i> . Life history of, <i>Oedogonium</i>	Completed Completed	Uploaded in the Google Classroom
June	Algae	Life history of <i>Ectocarpus</i> . Life history of <i>Polysiphonia</i> Cell structure of Diatom, Auxospore formation in Centrales and Pennales.	Completed Yet to be completed Yet to be completed	Uploaded in the Google Classroom
July	Remedial Classes/ Revision Classes			
Assessment	<ul style="list-style-type: none"> • Class test • Assignment • Presentation • Group Discussion 			
Materials Needed:	<ul style="list-style-type: none"> • Projection system • Board for Demonstration Problems 			

4TH SEMESTER BOTANY GENERAL, 2023

Name of the Teacher: DR. DEBASREE LODH				
Month	Topic Name	Lesson Name	Status	Study materials
April	Anatomy	Anatomy -Cell wall (Gross structure and chemical composition), Meristematic and Permanent tissue (structure, distribution and function)	Completed	Uploaded in the google classroom
May	Anatomy	Vascular bundles- types, stele- types and evolution	Completed	Uploaded in the google classroom
June	Anatomy	Normal secondary growth; Ecology- Habitat and Niche (preliminary idea)	Yet to be completed Yet to be completed Yet to be completed	-
July	Remedial Classes/ Revision Classes			
Assessment	<ul style="list-style-type: none"> •Class test •Assignment •Presentation •Group Discussion 			
Materials Needed:	<ul style="list-style-type: none"> •Projection system •Board for Demonstration Problems 			

2nd SEMESTER BOTANY HONOURS PRACTICAL, 2023

Name of the Teacher: DR. DEBASREE LODH				
Month	Topic Name	Lesson Name	Status	Study materials
April	Microscope Study	To learn use of Simple and Compound Microscopes.	Completed	Given
	Identification	Study of Permanent slides: <i>Volvox</i> , <i>Polysiphonia</i> .	Completed	
May	Work out	<i>Oedogonium</i>	Completed	Given
	Identification	Morphological study of the plant body (Bryophytes): Genera as mentioned in theoretical syllabus.	Completed	
June	Work out	<i>Chara</i> , <i>Ectocarpus</i>	Completed	Given
	Identification	<i>Riccia</i> (V.S. of thallus with antheridia/archegonia/sporophyte), <i>Marchantia</i> (L.S. through gemma cup, antheridiophore, archegoniophore, sporophyte), <i>Anthoceros</i> (L.S. of sporophyte), <i>Funaria</i> (L.S. of capsule)	Yet to be completed	
July	Remedial Classes/ Revision Classes			
Assessment	<ul style="list-style-type: none"> •Class test •Assignment •Presentation •Group Discussion 			
Materials Needed:	<ul style="list-style-type: none"> •Projection system •Board for Demonstration Problems 			

2nd SEMESTER BOTANY GENERAL PRACTICAL, 2023

Name of the Teacher: DR. DEBASREE LODH				
Month	Topic Name	Lesson Name	Status	Study materials
April	Microscope Study Identification	To learn use of Simple and Compound Microscopes. Study of Permanent slides: <i>Volvox, Polysiphonia.</i>	Completed Completed	Given
May	Work out Identification	<i>Oedogonium</i> Morphological study of the plant body (Bryophytes): Genera as mentioned in theoretical syllabus.	Completed Completed	Given
June	Work out Identification	<i>Chara, Ectocarpus</i> <i>Marchantia</i> (L.S. through gemma cup, antheridiophore, archegoniophore, sporophyte), <i>Anthoceros</i> (L.S. of sporophyte), <i>Funaria</i> (L.S. of capsule).	Completed Yet to be completed	Given
July	Remedial Classes/ Revision Classes			
Assessment	<ul style="list-style-type: none"> •Class test •Assignment •Presentation •Group Discussion 			
Materials Needed:	<ul style="list-style-type: none"> •Projection system •Board for Demonstration Problems 			

6TH SEMESTER BOTANY HONOURS PRACTICAL, 2023

Name of the Teacher: DR. DEBASREE LODH				
Month	Topic Name	Lesson Name	Status	Study materials
April	Plant physiology	Estimation of Catalase activity in plant samples. Effect of CO ₂ on the rate of photosynthesis. To extract and separate chlorophyll pigment by chromatogram. Determination of loss of water per stomata per hour.	Completed Completed	Given
May	Biochemistry	Measurement of osmotic pressure of <i>Rhoeo</i> leaf by plasmolytic method. Effect of temperature on absorption of water by storage tissue and determination of Q ₁₀ . Comparison of imbibitions of water by starchy, proteinaceous and fatty seeds.	Completed Completed	Given
June		Relationship between transpiration and evaporation. Measurement of oxygen	Yet to be completed	-

		uptake by respiring tissue (per g/hr). Determination of the RQ of germinating seeds.		
July	Remedial Classes/ Revision Classes			
Assessment	<ul style="list-style-type: none"> •Class test •Assignment •Presentation •Group Discussion 			
Materials Needed:	<ul style="list-style-type: none"> •Projection system •Board for Demonstration Problems 			

6TH SEMESTER BOTANY HONOURS PROJECT, 2023

Name of the Teacher: DR. DEBASREE LODH		
Month	Topic Name	Status
April	Students project	30-35 % completed
May	Students project	70-75 % completed
June	Project submission and Viva-voce	Yest to be completed
Assessment	<ul style="list-style-type: none">•Presentation•Group Discussion	
Materials Needed:	<ul style="list-style-type: none">•Projection system•lab facilities• PC	

Study Plan for 1st, 3rd, and 5th Semester

Theory and Practical Classes

Duration: September, 2022- March, 2023



Holy Cross College, Agartala

Dr. Debasree Lodh

Assistant Professor
Department of Botany

Semester: 1st Semester (Honours) (Theory)

Teacher's Name : Dr. Debasree Lodh

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
SEPTEMBER 2022						
September	Tuesday, Wednesday	50 Mins.	Industrial Botany – II (Plant Nursery and Floriculture Industry)	Concept and types of nurseries: ornamental plant nursery, fruit plant nursery, medicinal plant nursery	3	Completed
OCTOBER 2022						
October	Tuesday, Wednesday	50 Mins.	Industrial Botany – II (Plant Nursery and Floriculture Industry)	vegetable plant nursery and orchid nursery (with reference to infrastructure required and commercial applications).	4	Completed
NOVEMBER 2022						
November	Tuesday, Wednesday	50 Mins.	Industrial Botany – II (Plant Nursery and Floriculture Industry)	Propagation methods: Seed propagation, natural vegetative propagation and artificial vegetative propagation (Cutting: Stem, Layering: Air layering, Grafting: Stone grafting and Approach grafting, Budding: T budding).	4	Completed

DECEMBER 2022						
December	Tuesday, Wednesday	50 Mins.	Industrial Botany – II (Plant Nursery and Floriculture Industry)	Introduction to floriculture: Important floricultural crops, open cultivation practices, harvesting and marketing.	2	Completed
January, 2023						
January	Tuesday, Wednesday	50 Mins.	Industrial Botany – II (Plant Nursery and Floriculture Industry)	open cultivation practices, harvesting and marketing.	2	Completed
February, 2023						
February	Tuesday, Wednesday	50 Mins.	Remedial Classes			

Semester:1st Semester (General) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
SEPTEMBER 2022						
September	Thursday	50 Mins.	Industrial Botany – II (Plant Nursery)	Concept and types of nurseries: ornamental plant nursery, fruit plant nursery.	3	-Completed

			and Floriculture Industry)			
OCTOBER 2022						
October	Thursday	50 Mins.	Industrial Botany – II (Plant Nursery and Floriculture Industry)	vegetable plant nursery (with reference to infrastructure required and commercial applications).	2	-Completed
NOVEMBER 2022						
November	Thursday	50 Mins.	Industrial Botany – II (Plant Nursery and Floriculture Industry)	Propagation methods: Seed propagation, natural vegetative propagation and artificial vegetative propagation (Cutting, Layering and grafting)	4	Completed
DECEMBER 2022						
December	Thursday	50 Mins.	Industrial Botany – II (Plant Nursery and Floriculture Industry)	Introduction to floriculture: Important floricultural crops,	2	Completed
January, 2023						
January	Thursday	50 Mins.	Industrial Botany – II (Plant Nursery	open cultivation practices, harvesting and marketing.	2	Completed

			and Floriculture Industry)			
February, 2023						
February	Thursday	50 Mins.	Remedial Classes			

Semester:3rd Semester (Honours) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
SEPTEMBER 2022						
September	Tuesday	50 Mins.	Microbiology and Plant pathology	General characteristics of Plant virus and Bacteriophage,	4	-Completed
OCTOBER 2022						
October	Tuesday	50 Mins.	Microbiology and Plant pathology	Growth cycle Lytic (T ₄) and Lysogenic (λ virus)	4	Completed
NOVEMBER 2022						
November	Tuesday	50 Mins.	Microbiology and Plant pathology	Bacteria-Cell structure Endospore formation	8	Completed
DECEMBER 2022						

December	Tuesday	50 Mins.	Microbiology and Plant pathology	Genetic Recombination-Conjugation,	4	Completed
January, 2023						
January	Tuesday	50 Mins.	Microbiology and Plant pathology	transformation and transduction	4	Completed
February, 2023						
February	Tuesday	50 Mins.	Remedial Classes			

Semester:3rd Semester (General) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
SEPTEMBER 2022						
September	Monday & Friday	50 Mins	Microbiology and Plant pathology	General characteristics of Plant virus and Bacteriophage	4	-Completed
OCTOBER 2022						
October	Monday & Friday	50 Mins	Microbiology and Plant pathology	Growth cycle Lytic (T ₄) and Lysogenic (λ virus)	4	Completed
NOVEMBER 2022						

November	Monday & Friday	50 Mins	Microbiology and Plant pathology	Bacteria-Cell structure Endospore formation	4	Completed
DECEMBER 2022						
December	Monday & Friday	50 Mins	Microbiology and Plant pathology	Genetic Recombination-Conjugation,	4	Completed
January, 2023						
January	Monday & Friday	50 Mins	Microbiology and Plant pathology	Transformation and transduction	4	Completed
February, 2023						
February	Monday & Friday	50 Mins	Remedial Classes			

Semester: 5th Semester (Honours) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
SEPTEMBER 2022						
September	Tuesday & Friday	50 Mins	Cytogenetics	Mendelian inheritance; Gene interactions: Incomplete Dominance (1:2:1), Modified dihybrid ratio (12:3:1,	4	Completed

				9:3:4, 9:7, 9:6:1, 13:3), Atavism, Pleiotropism		
OCTOBER 2022						
October	Tuesday & Friday	50 Mins	Cytogenetics	Crossing Over: Cytological proof of crossing over (McClintock's experiment); Molecular basis of Crossing Over	4	Completed
NOVEMBER 2022						
November	Tuesday & Friday	50 Mins	Cytogenetics	Complete and incomplete linkage. Thee point test cross, Problems on Gene Mapping; Sex linked trait and sex linked inheritance; Aneuploidy and Euploidy, role of polyploidy in crop improvement	8	Completed
DECEMBER 2022						
December	Tuesday & Friday	50 Mins	Cytogenetics & Plant Breeding and Biostatistics	Chromosomal aberration: Types and meiotic behavior of deletion, duplication, translocation and inversionMolecular mapping – FISH technique; Bioinformatics: Genomics and proteomics (A brief idea). Methods of plant breeding: Introduction, emasculation, Hybridization and Acclimatization	4	Completed
January, 2023						
January	Tuesday & Friday	50 Mins		Selection: Mass selection and pure selection; Male sterility: Genetic,	4	Completed

				Cytoplasmic and Cytoplasmic-genetic male sterility; Heterosis and hybrid vigour		
February, 2023						
February	Tuesday & Friday	50 Mins			Remedial classes	

Semester: 5th Semester (Honours) (Practical)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
SEPTEMBER 2022						
September	Monday & Wednesday	50 Mins	Mitotic Study	Mitotic Study : Temporary preparation of metaphase chromosomes from root tips of <i>Allium cepa</i> and <i>Lens esculenta</i> and determination of their somatic chromosome number.	4	-completed
OCTOBER 2022						
October	Monday & Wednesday	50 Mins	Meiotic Study	Study of mitotic index in <i>Allium cepa</i> L. Meiotic Study : Temporary preparation of prophase I (Diplotene and diakinesis),	4	Completed

				Metaphase – I and Anaphase – I from flower buds of <i>Allium cepa</i> , <i>Rhoeo sp</i> and <i>Datura sp</i>		
NOVEMBER 2022						
November	Monday & Wednesday	50 Mins	Identification of permanent slides Study of pollen sterility	Identification with reasons from permanent slides: Different stages of mitosis and meiosis including abnormalities like Sticky Bridge, laggard chromosome(s), chromosomal fragmentation, ring chromosome, early separation. Study of pollen sterility by Aceto-carmine staining technique.	8	Completed
DECEMBER 2022						
December	Monday & Wednesday	50 Mins	Demonstration of emasculation Statistical analysis	Demonstration of emasculation technique. Graphical representation of statistical Data. Statistical analysis of Mean, Mode, Median, Standard deviation, Standard error and T-Test. Determination of goodness of fit in normal and modified dihybrid ratios.	4	Completed
January, 2023						
January	Monday & Wednesday	50 Mins	Demonstration of emasculation	Statistical analysis of Mean, Mode, Median, Standard deviation, Standard error and T-Test.	4	Completed

			Statistical analysis	Determination of goodness of fit in normal and modified dihybrid ratios.		
February, 2023						
February	Monday & Wednesday	50 Mins	Remedial Classes			

Semester: 5th Semester (General) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
SEPTEMBER 2022						
September	Monday	50 Mins	Cell Biology and Molecular Biology, Cytogenetics and Plant Breeding	Mendelian inheritance; Gene interactions: Incomplete Dominance (1:2:1), Modified dihybrid ratio (12:3:1, 9:3:4, 9:7)	4	-completed
OCTOBER 2022						
October	Monday	50 Mins	Cell Biology and Molecular Biology, Cytogenetics and Plant Breeding	Crossing Over: Cytological proof of crossing over (McClintock's experiment);	4	Completed

NOVEMBER 2022						
November	Monday	50 Mins	Cell Biology and Molecular Biology, Cytogenetics and Plant Breeding	Complete and incomplete linkage; Aneuploidy and Euploidy, role of polyploidy in crop improvement;	8	Completed
DECEMBER 2022						
December	Monday	50 Mins	Cell Biology and Molecular Biology, Cytogenetics and Plant Breeding	Chromosomal aberration: deletion, duplication, translocation and inversion;	4	Completed
January, 2023						
January	Monday	50 Mins	Cell Biology and Molecular Biology, Cytogenetics and Plant Breeding	Methods of plant breeding: Introduction, emasculation	4	Completed
February, 2023						
February	Monday	50 Mins	Remedial Classes			

Semester: 5th Semester (General) (Practical)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
SEPTEMBER 2022						
September	Tuesday & Thursday	50 Mins	Mitotic Study	Mitotic Study: Temporary preparation of metaphase chromosomes from root tips of <i>Allium cepa</i> Study of mitotic index in <i>Allium cepa</i> L.	4	-Completed
OCTOBER 2022						
October	Tuesday & Thursday	50 Mins	Mitotic Study	Identification with reasons from permanent slides: Different stages of mitosis and meiosis including abnormalities like Sticky Bridge, laggard chromosome(s).	4	Completed
NOVEMBER 2022						
November	Tuesday & Thursday	50 Mins	Detection of organic acids Detection of the nature of carbohydrate Photosynthesis	chromosomal fragmentation, ring chromosome, early separation. Study of pollen sterility by Aceto-carmine staining technique. Detection of organic acids: citric, tartaric, oxalic and malic acids from unknown samples. Detection of the nature of carbohydrate: glucose, fructose, and sucrose from unknown samples. Determination of released oxygen during photosynthesis.	8	Completed

DECEMBER 2022						
December	Tuesday & Thursday	50 Mins	Chromatography Measurement of oxygen Effect of temperature Comparison of imbibition's	To extract and separate chlorophyll pigment by chromatography. Relationship between transpiration and evaporation.	4	Completed
January, 2023						
January	Tuesday & Thursday	50 Mins	Chromatography Measurement of oxygen Effect of temperature Comparison of imbibition's Tissue Culture	Measurement of oxygen uptake by respiring tissue (per g/hr). Effect of temperature on absorption of water by strage tissue and determination of Q ₁₀ . Comparison of imbibition's of water by starchy, proteinaceous and fatty seeds. Demonstration and function of autoclave, laminar airflow, pH meter and culture room. Aseptic techniques of explants culture.	4	Completed
February, 2023						
February	Tuesday & Thursday	50 Mins	Remedial Classes			

2ND SEMESTER BOTANY HONOURS, 2022

Name of the Teacher: DR. SOMNATH KAR				
Month	Topic Name	Lesson Name	Status	Study materials
April	Gymnosperms	Introduction Distribution in India, vegetative and reproductive structure, Development of gametophyte and embryogeny of Cycas	Completed Completed	Uploaded in the google classroom
May	Gymnosperms	Distribution in India, vegetative and reproductive structure, Development of gametophyte and embryogeny of Pinus Distribution in India, vegetative and reproductive structure, Development of gametophyte and embryogeny of Gnetum Comperative account of Cycas, Pinus and Gnetum Economic importance with reference to wood, resins, essential oils & drugs Progymnosperm –Diagnostic characters, Vegetative & reproductive structures of Archeopteris.	Completed Completed Completed Completed Ongoing	Uploaded in the google classroom
June	Plant fossil	Types of fossils - Different modes of preservation (Schopf – 1975), Conditions favouring fossilization, Importance of fossil study. Geological time scale with dominant plant groups through ages. Indian Gondwana System. Lyginopteris, Williamsonia, Cordaites	Completed Yet to be completed Yet to be completed	-
July	Remedial Classes/ Revision Classes			
Assessment	<ul style="list-style-type: none"> •Class test •Assignment •Presentation •Group Discussion 			
Materials Needed:	<ul style="list-style-type: none"> •Projection system •Board for Demonstration Problems 			

4TH SEMESTER BOTANY HONOURS, 2022

Name of the Teacher: DR. SOMNATH KAR				
Month	Topic Name	Lesson Name	Status	Study materials
April	Morphology	Fruits- types	Completed	Uploaded in the google classroom
May	Embryology	Microsporogenesis Microgametogenesis Mega sporogenesis Megagametogenesis (Monosporic, bisporic and tetrasporic)	Completed Completed Completed Completed	Uploaded in the google classroom
June	Embryology Taxonomy Taxonomy	Development of embryo, Development of endosperm Nomenclature and rules of ICBN Mimosaceae, Caesalpiniaceae, Fabaceae, Solanaceae, Lamiaceae and Asteraceae	Completed Yet to be completed Yet to be completed	-
July	Remedial Classes/ Revision Classes			
Assessment	<ul style="list-style-type: none"> •Class test •Assignment •Presentation •Group Discussion 			
Materials Needed:	<ul style="list-style-type: none"> •Projection system •Board for Demonstration Problems 			

6TH SEMESTER BOTANY HONOURS, 2022

Name of the Teacher: DR. SOMNATH KAR				
Month	Topic Name	Lesson Name	Status	Study materials
April	Plant physiology	Photosynthesis: introduction Components of photosynthesis, Types of chlorophyll carotenoids and their structures and functions	Completed Completed Completed Completed	Uploaded in the google classroom
May	Plant physiology	Red drop effect Enhancement effect Antenna complex, photochemical reactions, Mechanism of electron transport in PS-I and PS-II, Calvin cycle; HSK pathway; C3 and C4 plants and photosynthetic efficiency, photorespiration, Crassulacean acid metabolism (CAM)	Completed Completed Completed Completed	Uploaded in the google classroom
June		Stomatal physiology, Respiration, Biological Nitrogen fixation, Photoperiodism, Photomorphogenesis Plant growth regulators	Completed	Uploaded in the google classroom
July	Remedial Classes/ Revision Classes			
Assessment	<ul style="list-style-type: none"> •Class test •Assignment •Presentation •Group Discussion 			
Materials Needed:	<ul style="list-style-type: none"> •Projection system •Board for Demonstration Problems 			

2ND SEMESTER BOTANY GENERAL, 2022

Name of the Teacher: DR. SOMNATH KAR				
Month	Topic Name	Lesson Name	Status	Study materials
April	Gymnosperms	Introduction Distribution in India, vegetative and reproductive structure, Development of gametophyte and embryogeny of Cycas	Completed Completed	Upload in the google classroom
May	Gymnosperms	Distribution in India, vegetative and reproductive structure, Development of gametophyte and embryogeny of Pinus Distribution in India, vegetative and reproductive structure, Development of gametophyte and embryogeny of Gnetum Comparative account of Cycas, Pinus and Gnetum Economic importance with reference to wood, resins, essential oils & drugs Progymnosperm –Diagnostic characters	Completed Completed Completed Completed Ongoing	Upload in the google classroom
June	Plant fossil	Types of fossils - Different modes of preservation (Schopf – 1975), Conditions favouring fossilization, Importance of fossil study. Geological time scale with dominant plant groups through ages.	Completed Yet to be completed	-
July	Remedial Classes/ Revision Classes			
Assessment	<ul style="list-style-type: none"> •Class test •Assignment •Presentation •Group Discussion 			
Materials Needed:	<ul style="list-style-type: none"> •Projection system •Board for Demonstration Problems 			

4TH SEMESTER BOTANY GENERAL, 2022

Name of the Teacher: DR. SOMNATH KAR				
Month	Topic Name	Lesson Name	Status	Study materials
April	Morphology	Introduction	Completed	Uploaded in the google classroom
May	Morphology	Fruits- types	Completed	Uploaded in the google classroom
June	Taxonomy	Mimosaceae, Caesalpiniaceae, Fabaceae, Solanaceae, Lamiaceae and Asteraceae	Yet to be completed Yet to be completed Yet to be completed	-
July	Remedial Classes/ Revision Classes			
Assessment	<ul style="list-style-type: none"> •Class test •Assignment •Presentation •Group Discussion 			
Materials Needed:	<ul style="list-style-type: none"> •Projection system •Board for Demonstration Problems 			

4TH SEMESTER BOTANY HONOURS PRACTICAL, 2022

Name of the Teacher: DR. SOMNATH KAR				
Month	Topic Name	Lesson Name	Status	Study materials
April	Identification	Types of stomata, Sclerides, Types of Raphides,	Completed Completed Completed	Given
May	Identification	Fruit type Placentation , Nymphaea petiole, Nerium leaf	Completed Completed	Given
June	Work out Identification	Anomalous secondary structures Angiospermic plants Cystolith, laticiferous duct, Aleurone grain, Special types of inflorescences Types of stamens	Completed Completed Completed Completed	Given
July	Remedial Classes/ Revision Classes			
Assessment	<ul style="list-style-type: none"> •Class test •Assignment •Presentation •Group Discussion 			
Materials Needed:	<ul style="list-style-type: none"> •Projection system •Board for Demonstration Problems 			

4TH SEMESTER BOTANY GENERAL PRACTICAL, 2022

Name of the Teacher: DR. SOMNATH KAR				
Month	Topic Name	Lesson Name	Status	Study materials
April	Identification	Types of stomata, Sclerides, Types of Raphides,	Completed Completed Completed	Given
May	Identification Work out	Fruit type Placentation Monocot stem, Dicot stem, Monocot root, Dicot root.	Completed Completed Completed	Given
June	Work out Identification	Angiospermic plants Cystolith, laticiferous duct, Aleurone grain	Yet to be completed Yet to be completed Yet to be completed	-
July	Remedial Classes/ Revision Classes			
Assessment	<ul style="list-style-type: none"> •Class test •Assignment •Presentation •Group Discussion 			
Materials Needed:	<ul style="list-style-type: none"> •Projection system •Board for Demonstration Problems 			

6TH SEMESTER BOTANY HONOURS PRACTICAL, 2022

Name of the Teacher:				
Month	Topic Name	Lesson Name	Status	Study materials
April	Plant physiology	Relationship between transpiration and evaporation Comparison of imbibitions of water by starchy, proteinaceous and fatty seeds.	Completed Completed	Given
May	Biochemistry	Detection of organic acids: citric, tartaric, oxalic and malic acids from unknown samples. Detection of the nature of carbohydrate: glucose, fructose, sucrose from unknown samples	Completed Completed	Given
June	Pharmacognosy	Study of Palisade ratio and Vein islet no.	Yet to be completed	-
July	Remedial Classes/ Revision Classes			
Assessment	<ul style="list-style-type: none"> •Class test •Assignment •Presentation •Group Discussion 			
Materials Needed:	<ul style="list-style-type: none"> •Projection system •Board for Demonstration Problems 			

6TH SEMESTER BOTANY HONOURS PROJECT, 2022

Name of the Teacher:		
Month	Topic Name	Status
April	Students project	30-35 % completed
May	Students project	70-75 % completed
June	Project submission and Viva-voce	Yest to be completed
Assessment	<ul style="list-style-type: none">•Presentation•Group Discussion	
Materials Needed:	<ul style="list-style-type: none">•Projection system•lab facilities• Pc	

2ND SEMESTER BOTANY HONOURS, 2023

Name of the Teacher: DR. SOMNATH KAR				
Month	Topic Name	Lesson Name	Status	Study materials
April	Gymnosperms	Introduction Distribution in India, vegetative and reproductive structure, Development of gametophyte and embryogeny of Cycas	Completed Completed	Uploaded in the google classroom
May	Gymnosperms	Distribution in India, vegetative and reproductive structure, Development of gametophyte and embryogeny of Pinus Distribution in India, vegetative and reproductive structure, Development of gametophyte and embryogeny of Gnetum Comperative account of Cycas, Pinus and Gnetum Economic importance with reference to wood, resins, essential oils & drugs Progymnosperm –Diagnostic characters, Vegetative & reproductive structures of Archeopteris.	Completed Completed Completed Completed Ongoing	Uploaded in the google classroom
June	Plant fossil	Types of fossils - Different modes of preservation (Schopf – 1975), Conditions favouring fossilization, Importance of fossil study. Geological time scale with dominant plant groups through ages. Indian Gondwana System. Lyginopteris, Williamsonia, Cordaites	Completed Yet to be completed Yet to be completed	-
July	Remedial Classes/ Revision Classes			
Assessment	<ul style="list-style-type: none"> •Class test •Assignment •Presentation •Group Discussion 			
Materials Needed:	<ul style="list-style-type: none"> •Projection system •Board for Demonstration Problems 			

4TH SEMESTER BOTANY HONOURS, 2023

Name of the Teacher: DR. SOMNATH KAR				
Month	Topic Name	Lesson Name	Status	Study materials
April	Morphology	Fruits- types	Completed	Uploaded in the google classroom
May	Embryology	Microsporogenesis Microgametogenesis Mega sporogenesis Megagametogenesis (Monosporic, bisporic and tetrasporic)	Completed Completed Completed Completed	Uploaded in the google classroom
June	Embryology Taxonomy Taxonomy	Development of embryo, Development of endosperm Nomenclature and rules of ICBN Mimosaceae, Caesalpiniaceae, Fabaceae, Solanaceae, Lamiaceae and Asteraceae	Completed Yet to be completed Yet to be completed	-
July	Remedial Classes/ Revision Classes			
Assessment	<ul style="list-style-type: none"> •Class test •Assignment •Presentation •Group Discussion 			
Materials Needed:	<ul style="list-style-type: none"> •Projection system •Board for Demonstration Problems 			

6TH SEMESTER BOTANY HONOURS, 2023

Name of the Teacher: DR. SOMNATH KAR				
Month	Topic Name	Lesson Name	Status	Study materials
April	Plant physiology	Photosynthesis: introduction Components of photosynthesis, Types of chlorophyll carotenoids and their structures and functions	Completed Completed Completed Completed	Uploaded in the google classroom
May	Plant physiology	Red drop effect Enhancement effect Antenna complex, photochemical reactions, Mechanism of electron transport in PS-I and PS-II, Calvin cycle; HSK pathway; C3 and C4 plants and photosynthetic efficiency, photorespiration, Crassulacean acid metabolism (CAM)	Completed Completed Completed Completed	Uploaded in the google classroom
June		Stomatal physiology, Respiration, Biological Nitrogen fixation, Photoperiodism, Photomorphogenesis Plant growth regulators	Completed	Uploaded in the google classroom
July	Remedial Classes/ Revision Classes			
Assessment	<ul style="list-style-type: none"> •Class test •Assignment •Presentation •Group Discussion 			
Materials Needed:	<ul style="list-style-type: none"> •Projection system •Board for Demonstration Problems 			

2ND SEMESTER BOTANY GENERAL, 2023

Name of the Teacher: DR. SOMNATH KAR				
Month	Topic Name	Lesson Name	Status	Study materials
April	Gymnosperms	Introduction Distribution in India, vegetative and reproductive structure, Development of gametophyte and embryogeny of Cycas	Completed Completed	Upload in the google classroom
May	Gymnosperms	Distribution in India, vegetative and reproductive structure, Development of gametophyte and embryogeny of Pinus Distribution in India, vegetative and reproductive structure, Development of gametophyte and embryogeny of Gnetum Comparative account of Cycas, Pinus and Gnetum Economic importance with reference to wood, resins, essential oils & drugs Progymnosperm –Diagnostic characters	Completed Completed Completed Completed Ongoing	Upload in the google classroom
June	Plant fossil	Types of fossils - Different modes of preservation (Schopf – 1975), Conditions favouring fossilization, Importance of fossil study. Geological time scale with dominant plant groups through ages.	Completed Yet to be completed	-
July	Remedial Classes/ Revision Classes			
Assessment	<ul style="list-style-type: none"> •Class test •Assignment •Presentation •Group Discussion 			
Materials Needed:	<ul style="list-style-type: none"> •Projection system •Board for Demonstration Problems 			

4TH SEMESTER BOTANY GENERAL, 2023

Name of the Teacher: DR. SOMNATH KAR				
Month	Topic Name	Lesson Name	Status	Study materials
April	Morphology	Introduction	Completed	Uploaded in the google classroom
May	Morphology	Fruits- types	Completed	Uploaded in the google classroom
June	Taxonomy	Mimosaceae, Caesalpiniaceae, Fabaceae, Solanaceae, Lamiaceae and Asteraceae	Yet to be completed Yet to be completed Yet to be completed	-
July	Remedial Classes/ Revision Classes			
Assessment	<ul style="list-style-type: none"> •Class test •Assignment •Presentation •Group Discussion 			
Materials Needed:	<ul style="list-style-type: none"> •Projection system •Board for Demonstration Problems 			

4TH SEMESTER BOTANY HONOURS PRACTICAL, 2023

Name of the Teacher: DR. SOMNATH KAR				
Month	Topic Name	Lesson Name	Status	Study materials
April	Identification	Types of stomata, Sclerides, Types of Raphides,	Completed Completed Completed	Given
May	Identification	Fruit type Placentation , Nymphaea petiole, Nerium leaf	Completed Completed	Given
June	Work out Identification	Anomalous secondary structures Angiospermic plants Cystolith, laticiferous duct, Aleurone grain, Special types of inflorescences Types of stamens	Completed Completed Completed Completed	Given
July	Remedial Classes/ Revision Classes			
Assessment	<ul style="list-style-type: none"> •Class test •Assignment •Presentation •Group Discussion 			
Materials Needed:	<ul style="list-style-type: none"> •Projection system •Board for Demonstration Problems 			

4TH SEMESTER BOTANY GENERAL PRACTICAL, 2023

Name of the Teacher: DR. SOMNATH KAR				
Month	Topic Name	Lesson Name	Status	Study materials
April	Identification	Types of stomata, Sclerides, Types of Raphides,	Completed Completed Completed	Given
May	Identification Work out	Fruit type Placentation Monocot stem, Dicot stem, Monocot root, Dicot root.	Completed Completed Completed	Given
June	Work out Identification	Angiospermic plants Cystolith, laticiferous duct, Aleurone grain	Yet to be completed Yet to be completed Yet to be completed	-
July	Remedial Classes/ Revision Classes			
Assessment	<ul style="list-style-type: none"> •Class test •Assignment •Presentation •Group Discussion 			
Materials Needed:	<ul style="list-style-type: none"> •Projection system •Board for Demonstration Problems 			

6TH SEMESTER BOTANY HONOURS PRACTICAL, 2023

Name of the Teacher:				
Month	Topic Name	Lesson Name	Status	Study materials
April	Plant physiology	Relationship between transpiration and evaporation Comparison of imbibitions of water by starchy, proteinaceous and fatty seeds.	Completed Completed	Given
May	Biochemistry	Detection of organic acids: citric, tartaric, oxalic and malic acids from unknown samples. Detection of the nature of carbohydrate: glucose, fructose, sucrose from unknown samples	Completed Completed	Given
June	Pharmacognosy	Study of Palisade ratio and Vein islet no.	Yet to be completed	-
July	Remedial Classes/ Revision Classes			
Assessment	<ul style="list-style-type: none"> •Class test •Assignment •Presentation •Group Discussion 			
Materials Needed:	<ul style="list-style-type: none"> •Projection system •Board for Demonstration Problems 			

6TH SEMESTER BOTANY HONOURS PROJECT, 2023

Name of the Teacher:		
Month	Topic Name	Status
April	Students project	30-35 % completed
May	Students project	70-75 % completed
June	Project submission and Viva-voce	Yest to be completed
Assessment	<ul style="list-style-type: none">•Presentation•Group Discussion	
Materials Needed:	<ul style="list-style-type: none">•Projection system•lab facilities• Pc	

Study Plan for 1st, 3rd, and 5th Semester Theory and Practical Classes

Duration: September 2022- March 2023

Holy Cross College



Dr. Somnath Kar

Department of Botany

Dr. Somnath Kar

Semester:1st Semester (Honours) (Theory)

Dr. Somnath Kar						
Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
SEPTEMBER 2022						
September	Thursday	50 Mins.	Environmental Botany	Pollution: Definition and categories Air pollution: Types and sources of air pollutants and their effects on plants and animals.	3	Completed
OCTOBER 2022						
October	Thursday	50 Mins.	Environmental Botany	Water pollution: Types and sources of pollutants and their effects on plants and animals. Soil pollution: Sources of pollutants and their effects on living organisms.	6	Completed
NOVEMBER 2022						
November	Thursday	50 Mins.	Environmental Botany	Bioremediation, noise pollution, acid rain, classical and photochemical smog, heavy metal pollution and radioactive pollution.	8	Completed

DECEMBER 2022						
December	Thursday	50 Mins.	Environmental Botany	Greenhouse effect and global warming – basic concept significance of ozone umbrella, ozone hole – types of ozone depleting chemicals and their interactions.	4	Completed
JANUARY 2023						
January	Thursday	50 Mins.	Environmental Botany	Revision and doubt clearing session	4	Completed
FEBRUARY 2023						
February	Thursday	50 Mins.	Environmental Botany	Remedial classes	3	Completed

Semester:1st Semester (General) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
SEPTEMBER 2022						
September	Wednesday	50 Mins.	Environmental Botany	Pollution: Definition and categories Air pollution: Types and sources of air pollutants	3	Completed
OCTOBER 2022						

October	Wednesday	50 Mins.	Environmental Botany	Water pollution: Types and sources of pollutants and their effects on plants and animals.	2	Completed
NOVEMBER 2022						
November	Wednesday	50 Mins.	Environmental Botany	Soil pollution: Sources of pollutants and their effects on living organisms. Noise pollution	4	Completed
DECEMBER 2022						
December	Wednesday	50 Mins.	Environmental Botany	Heavy metal pollution and radioactive pollution	4	Completed
JANUARY 2023						
January	Wednesday	50 Mins.	Environmental Botany	Revision and doubt clearing session	4	Completed
FEBRUARY 2023						
February	Wednesday	50 Mins.	Environmental Botany	Remedial classes	3	Completed

Semester:3rd Semester (Honours) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
SEPTEMBER 2022						
September	Monday & Friday	50 Mins.	Microbiology and Plant pathology	Disease concepts, Symptoms-necrotic, hypoplastic and hyperplastic;	4	Completed
OCTOBER 2022						
October	Monday & Friday	50 Mins.	Microbiology and Plant pathology	Necrotrophs and biotrophs, mode of pathogenesis.	6	Completed
NOVEMBER 2022						
November	Monday & Friday	50 Mins.	Microbiology and Plant pathology	Defense mechanism with special references to phytoalexins, Plant quarantine;	10	Completed
DECEMBER 2022						
December	Monday & Friday	50 Mins.	Microbiology and Plant pathology	Koch's postulates, Symptoms, Casual organisms, Disease cycle and Control measures of Late blight of potato, Brown spot	4	Completed

				of rice, Black stem of wheat and Stem rot of Jute		
JANUARY 2023						
January	Monday & Friday	50 Mins.	Microbiology and Plant pathology	Revision and doubt clearing session	4	Completed
FEBRUARY 2023						
February	Monday & Friday	50 Mins.	Microbiology and Plant pathology	Remedial classes	3	Completed

Semester:3rd Semester (General) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
SEPTEMBER 2022						
September	Tuesday	50 Mins.	Microbiology and Plant pathology	Disease concepts, Symptoms-necrotic, hypoplastic and hyperplastic	4	Completed
OCTOBER 2022						

October	Tuesday	50 Mins.	Microbiology and Plant pathology	Necrotrophs and biotrophs, mode of pathogenesis.	4	Completed
NOVEMBER 2022						
November	Tuesday	50 Mins.	Microbiology and Plant pathology	Defense mechanism with special references to phytoalexins, Plant quarantine;	8	Completed
DECEMBER 2022						
December	Tuesday	50 Mins.	Microbiology and Plant pathology	Koch's postulates, Symptoms, Casual organisms, Disease cycle and Control measures of Late blight of potato, Brown sport of rice, Black stem of wheat and Stem rot of Jute	8	Completed
JANUARY 2023						
January	Tuesday	50 Mins.	Microbiology and Plant pathology	Revision and doubt clearing session	4	Completed
FEBRUARY 2023						
February	Tuesday	50 Mins.	Microbiology and Plant pathology	Remedial classes	3	Completed

Semester: 5th Semester (Honours) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
SEPTEMBER 2022						
September	Monday & Wednesday	50 Mins.	Cell Biology	Structure and function of Cell Organelles (Nucleus, Mitochondria, Chloroplast, ER, Golgi Apparatus, Peroxisomes and Glyoxysomes, Ultra-structure of ribosome in Prokaryotes and Eukaryotes,)	4	Completed
OCTOBER 2022						
October	Monday & Wednesday	50 Mins.	Cell Biology	Plasma membrane – Structure (Fluid mosaic model) and function; Organization of cp and mt DNA and their significance;	4	Completed
NOVEMBER 2022						
November	Monday & Wednesday	50 Mins.	Plant Breeding and Biostatistics	Collection of data (Variable and attribute, Primary and Secondary data, Population and sample); Types of charts and diagrams: Frequency distribution (Simple, Grouped and Cumulative);.	8	Completed

				Measures of Central tendency: Mean Mode and Median;;		
DECEMBER 2022						
December	Monday & Wednesday	50 Mins.	Plant Breeding and Biostatistics	Measure of dispersion: Mean deviation and Standard Deviation; Standard Error Correlation and Coefficient of Correlation (r); Student t-test; Chi Square test for goodness of fit; Classical definition of Probability, Addition and Multiplication rules	6	Completed
JANUARY 2023						
January	Monday & Wednesday	50 Mins.	Cell Biology Plant Breeding and Biostatistics	Revision and doubt clearing session	4	Completed
FEBRUARY 2023						
February	Monday & Wednesday	50 Mins.	Cell Biology Plant Breeding and Biostatistics	Remedial classes	3	Completed

Semester: 5th Semester (General) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
SEPTEMBER 2022						
September	Tuesday & Friday	50 Mins.	Plant Physiology and Plant Biotechnology:	Water potential and its components; Water absorption by roots (apoplastic and symplastic pathways); Photosynthesis: photochemical reactions,	4	Completed
OCTOBER 2022						
October	Tuesday & Friday	50 Mins.	Plant Physiology and Plant Biotechnology:	Mechanism of electron transport in PS-I and PS-II, Calvin cycle; C ₃ and C ₄ plants and photosynthetic efficiency, photorespiration, Crassulacean acid metabolism (CAM); Transpiration and anti-transpirant.	4	Completed
NOVEMBER 2022						
November	Tuesday & Friday	50 Mins.	Plant Physiology and Plant Biotechnology:	Respiration: Glycolysis, Oxidative Phosphorylation, Mitochondrial ETS; N-metabolism: Assimilation of Nitrogen, Biological Nitrogen fixation: role of nitrogenase in N ₂ fixation;	6	Completed
DECEMBER 2022						

December	Tuesday & Friday	50 Mins.	Plant Physiology and Plant Biotechnology	Photoperiodism: Photoperiodic responses and classification of plants, Photomorphogenesis; Plant growth regulators, physiological role and modes of action (IAA, Gibberellins and Cytokinins).	6	Completed
JANUARY 2023						
January	Tuesday & Friday	50 Mins.	Plant Physiology and Plant Biotechnology:	Revision and doubt clearing session	4	Completed
FEBRUARY 2023						
February	Tuesday & Friday	50 Mins.	Plant Physiology and Plant Biotechnology:	Remedial classes	3	Completed

Semester: 5th Semester (Honours) (Practical)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
SEPTEMBER 2022						
September	Wednesday	100 Mins	Demonstration of emasculation	Demonstration of emasculation technique.	2	Completed
OCTOBER 2022						
October	Wednesday	100 Mins	Statistical Analysis	Determination of goodness of fit in normal and modified dihybrid ratios.	4	Completed
NOVEMBER 2022						
November	Wednesday	100 Mins	Study of pollen sterility Statistical Analysis	Study of pollen sterility by Aceto-carmin staining technique. Graphical representation of statistical Data. Statistical analysis of Mean, Mode, Median,	4	Completed
DECEMBER 2022						
December	Wednesday	100 Mins	Statistical Analysis	Standard deviation, Standard error and T-Test.	3	Completed

JANUARY 2023					
January	Wednesday	100 Mins	Revision and doubt clearing session	4	Completed
FEBRUARY 2023					
February	Wednesday	100 Mins	Remedial classes	2	Completed

Semester: 5th Semester (General) (Practical)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
SEPTEMBER 2022						
September	Tuesday & Thursday	100 Mins	Plant physiology	Relationship between transpiration and evaporation.	6	Completed
OCTOBER 2022						
October	Tuesday & Thursday	100 Mins	Study of pollen sterility	Study of pollen sterility by Aceto-carmine staining technique.	6	Completed
NOVEMBER 2022						
November	Tuesday & Thursday	100 Mins	Biochemistry	Detection of organic acids: citric, tartaric, oxalic and malic acids from unknown samples. Detection of the nature of carbohydrate: glucose, fructose, and sucrose from unknown samples.	12	Completed
DECEMBER 2022						
December	Tuesday & Thursday	100 Mins	Plant physiology	Effect of temperature on absorption of water by storage tissue and determination of Q ₁₀ .	6	Completed

			Comparison of imbibition's of water by starchy, proteinaceous and fatty seeds.		
JANUARY 2023					
Tuesday & Thursday	100 Mins		Revision and doubt clearing session	6	Completed
FEBRUARY 2023					
Tuesday & Thursday	100 Mins		Remedial classes	3	Completed



HOLY CROSS COLLEGE

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Tripura University Reg. Code: 17

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Phone: 0381-2915930, +91 9402315672

email- principalhccagt@gmail.com

Web: www.holycrosscollege.in

Class Planned for 1st, 3rd and 5th semester of the academic session 2022-23

Expected number of working days: 63 (September 12, October 11, November 20 December 20)

Faculty Name: Dr. Shankha Shubhra Bhadra

Semester	Subject	Topic	No. of classes
5 th	Direct Taxation (H5)	Unit – 1:	
		Basic Concept & Definitions	2
		Residential Status	4
		Incidence of Tax	3
		Income exception	4
		Agricultural Income: Introduction	2
		Agricultural Income: Numerical	4
		Non-Agricultural Income: Numerical	4
		Class Test	1
		Revision	2
		Remedial	As per requirement
	Accounting Theory & Management Accounting (H6)	Unit – 1:	
		Accounting Theory: Introduction	2
		Difference between Theory & Practice	2
		Principles-Concepts-Conventions relations	3
		GAAP Introduction	3
		Measurement of Accounting Income	5
		Accounting Income vs. Economic Income	3
		Unit – 3:	
		Management Accounting: Introduction	3
Working Capital: Introduction	4		
Corporate Accounting (H3)	Unit – 4:		
	Issue of Shares: Introductory Numerical	5	
	Issue of Shares: Forfeiture & Transfer	5	
	Issue of Shares: Reissue & Transfer	7	
	Issue of Preference Share: Introductory Numerical	5	
	Redemption of Preference Share	6	
	Redemption of Debenture	4	
	Redemption of Debenture: Methods	14	
	Class Test	2	
	Revision	4	
	Remedial	As per requirement	
	Unit – 1:		



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3 rd	Indian Financial System (CIP3)	Indian Financial System: Introduction	2	
		Commercial Banks: Introduction	3	
		Reserve Bank of India: Introduction	3	
		RBI: Credit Control Policy and misc.	3	
		Unit – 2:		
		Money Market: Concepts	3	
		Money Market: Structure & Function	2	
		Class Test	2	
		Revision	2	
		Remedial	As per requirement	
1 st	Financial Accounting: Theory & Applications (Major 1)	Unit – 1:		
		Depreciation: Introduction	4	
		Depreciation: Methods	3	
		Depreciation: Buy & Sales	4	
		Depreciation: without Retrospective effect	5	
		Depreciation: with Retrospective effect	5	
		Depreciation: with Retrospective effect & Buy	5	
		Depreciation: with Retrospective effect- Buy & Sale	5	
		Revision	2	
		Remedial	As per requirement	
		Unit – 4:		
		Consignment: Introduction	8	
		Consignment: Commissions	8	
		Consignment: Misc.	5	
		Class Test	1	
		Revision	2	
		Remedial	As per requirement	

Janis
22/12/23

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Class Planned for 1st, 3rd and 5th semester of the academic session 2022-23

Faculty Name: Mr Samir Bhowmik

Semester	Subject	Topic	No. of classes
5 th	Direct Taxation (H5)	Unit – 3:	
		Profit and gain of Business And Profession: Concept and format	1
		Practical Practice Problems	2
		Tripura University Question Practice	2
		Capital gains: Concept and types	2
		Practical Practice Problems	2
		Tripura University Question Practice	2
		Unit – 4:	
		Income From other Sources : Concept	2
		Practical Practice Problems	2
		Tripura University Question Practice	2
		Set off and carry forward	2
	Practical Practice Problems	2	
	Tripura University Question Practice	2	
	Accounting Theory & Management Accounting(H6)	Unit – 4:	
		Ration Analysis: Concept, types, need	2
		Practical Practice Problems	2
		Tripura University Question Practice	2
Fund flow Statement : concept and need		2	
Practical Practice Problems		2	
Tripura University Question Practice	2		
3 rd	Corporate Accounting (H3)	Unit – 2:	
		Valuation Goodwill: Concept, Types, Need and Method	2
		Average Profit and Super Profit Method	2
		Valuation of Share: Assets Backing Method	2
		Valuation of Share: Yield Method	2
		Company Finan Account Practice	2
		Tripura University Question Practice	1
		Class Test	1
		Unit 3	
		Amalgamation: Concept and types	2
		Practical Practice Problems	3
		Tripura University Question Practice	2
		Internal Capital Reduction: Concept and Journal	2
		Practical Practice Problems	1
Tripura University Question Practice	1		



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		Unit – 3:			
	Indian Financial System (C1P3)	Financial Regulatory Institution: Concept and Importance	1		
		SEBI: Concept, Object and Function	2		
		Investor Protection Act: Concept and Pattern	2		
		Merchant Banking: Concept, Types and Function	2		
		Credit Rating: Concept, Types and Functions	2		
		Class Test	1		
		Revision	1		
			Unit – 2:		
1 st	Financial Accounting: Theory & Applications (H1)	Depreciation: Basic and Introduction, Types, Problems	1		
		Practical Practice Problems	3		
		Tripura University Question Practice	1		
		Final Account: Expenses and Income Basic Concept.	2		
		Practical Practice Problems	3		
		Tripura University Question Practice	2		
		Rectification of Error: Introduction, Types, Importance	2		
		Practical Practice Problems	2		
		Tripura University Question Practice	2		
		Class Test	1		
		Revision	1		
		Add on course	GST	GST: Forms and Application	3
				Practical Practice Problems	15
Test	01				

Amir
22.12.23

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Class Planned for 1st, 3rd and 5th semester of the academic session 2022-23

Expected number of working days: 63 (September 12, October 11, November 20 December 20)

Faculty Name: **Rajesh Kumar Das**

Semester	Subject	Topic	No. of classes	
5 th	Direct Taxation (H5)	Unit - 2:		
		Income from Salary: Concept & Rules	4	
		Income from Salary: Allowances	3	
		Income from Salary: Perquisites	2	
		Income from Salary: Numerical	8	
		Income House Property: Concept & rules	4	
		Income House Property: Annual Value	3	
		Income House Property: Deductions	2	
		Income House Property: Numerical	8	
		Class Test	1	
		Revision	2	
		Remedial	As per requirement	
		Accounting Theory & Management Accounting(H6)	Unit - 2:	
			Capital	6
	Assets		6	
	Liabilities		4	
	Financial Statements		5	
	Balance Sheet		4	
	Class Test		1	
	Revision		2	
	Remedial		As per requirement	
	Unit - 3:			
	Working Capital: Theory		5	
	Working Capital: Numerical		7	
	Class Test		1	
	Revision	2		
	Remedial	As per requirement		
Corporate Accounting	Unit - 4:			
	Holding Company: Concepts & rules	5		
	Holding Company: Accounting Entries	5		
	Holding Company: Numerical	10		
	Liquidation: Concepts & rules	5		
	Liquidation: Accounting Entries	4		
Liquidation: Numerical	10			

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3 rd	(H3)	Class Test	2	
		Revision	4	
		Remedial	As per requirement	
	Indian Financial System (C1P3)	Unit – 3:		
		Capital market: Concept	5	
		Primary & secondary market	6	
		Functionaries of stock exchange: Broker	2	
		Functionaries of stock exchange: Sub-broker	2	
		Functionaries of stock exchange: Jobbers	2	
		Functionaries of stock exchange: Consultants	2	
		Functionaries of stock exchange: Institutional investors	4	
		Class Test	2	
		Revision	2	
		Remedial	As per requirement	
1 st	Financial Accounting: Theory & Applications (H1)	Unit – 1:		
		Accounting: Basics	2	
		Accounting information	2	
		Revenue & Expenses	4	
		Accounting concepts	5	
		Accounting conventions	5	
		Accounting Standards	3	
		Class Test	1	
		Revision	2	
		Remedial	As per requirement	
		Unit – 4:		
		Partnership: Admission	8	
		Partnership: Dissolution	8	
		Class Test	1	
	Revision	2		
	Remedial	As per requirement		
	Add on course	GST	GST Registration	3
Filing GSTR			17	
TDS/TCS and INPUT TAX CREDIT			5	
GST Law, GST Act and Amendments			5	

J. J. J.
22.10.23

Department Of Commerce			
Class planned for 1st , 3rd and 5th sem (academic year 2022-23)			
Faculty Name: Nazmun Nahar Begam			
Semester	Subject	Topic	No. of classes
B.com 1st	Principles of management	UNIT I Management-Definition ,importance, functions and scope,	1
		Nature as profession ,science and art	3
		Universality of management -role and functions of a manager , Levels of mangement	3
		Development of different school of mangement thought	2
		Contribution of classical school (Taylor and Fayol)	2
		Neo classical and human relations approach	2
		Unit-2 Meaning of Planning, Nature, Importance, Forms & Steps in Planning	2
		Types of Plans, Barrier to effective planning	3
		Concept of MBO, Concepts & Processes,	2
		Policies Procedures & Methods	4
		Nature & Types of Policies	2
		Decision Making : Types & Technique of Decision Making	2
		Unit : 3 Organising: Concept , Nature, Types of Organisations	2
		Organisational Structure, span of control,	2
		Departmentalisation - Informal Organiosation	2
		Power-The sources of power , Authority Line , Staff & Fuctional Authority	2
		Difference between Authority & Power, Delegation of Authority, Advantages & Disadvantages of delegation	2
		UNIT: 4: Meaning, Nature, Importance & Types, Techniques of coordination	2
		Coordination as Essence of Management	2

		Controlling - meaning & Importance of Controlling	2
		relationship between planning & controlling	3
		Control Process - Characteristics of a sound control system	3
B.com 3rd	Entrepreneurship development	UNIT I Concept of Entrepreneurship and Entrepreneur - Nature of Entrepreneurship. Scope	3
		Scope and Importance - Entrepreneurship as a career - Characteristics and Functions of Entrepreneur -	2
		Entrepreneurial Qualification - Role of Creativity and Innovation in Entrepreneurship:	3
		Micro Small and Medium Entrepreneurship. Sole Proprietorship, and Family Venture.	4
		UNIT II The Entrepreneur and Law: Legal Protection of Innovations - Patents — Trademarks and Copyright.	4
		UNIT III Promotion of a Venture: Opportunity Analysis. External Environment Analysis - Economic, Social and Technical factors.	4
		Legal Requirements for establishing a New Unit.	2
		Financing of New Ventures: Methods of Financing - Equity Financing. Venture Capital, Debt Financing and Government Grants.	4
		UNIT IV: Project Planning and Feasibility Studies: Methods of Preparation of Project Plans : Technical, Financial and Commercial Feasibility; Contents of a project report Entrepreneurial Development Programme (EDP):- Need Objectives, Phases Relevance and Achievements.	5
B.com 5th	Marketing Management	UNIT-1 Marketing: Nature, scope, importance and objectives- Difference between Marketing and Selling-Marketing Environment.	2
		Marketing: Planning, Organizing and Controlling	2

	UNIT-2 Market Segmentation- Consumer Behaviour.	3
	Marketing Mix: Product, Price, Place, Promotion.	4
	Emerging Issues in Marketing: e- Marketing, Green Marketing, Socially-responsible Marketing, Relationship Marketing (basic ideas).	4
	UNIT-3	
	Human Resource Management: Meaning, relevance, role and functions- Human Resource Planning: Job-Description, Analysis and Evaluation,	4
	Recruitment & Selection. Human Resource Development: Performance Appraisal, Wage and Salary Administration.	4
	UNIT-4 Industrial Relations: Objectives, Trade Union,	2
	Collective Bargaining, Welfare and Social Security Measures- Workers' Participation in Management- Indian Scenario.	4
Remedial class (if any)		

David
22/12/25

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Department of Commerce

Lesson Plan Semester: 5th IT & E-Commerce(C1P5)

Faculty Name: **Mandrita Saha**

Semester	Subject	Topic	No. of classes
5 th	IT & E-Commerce (C1P5)	Unit – 1:	
		Introduction to Computers	
		Definition, Characteristics, Limitations, Elements of Computer, CPU	1
		Input Unit	1
		Memory Unit	1
		Output Unit	1
		Modern Communications	
		Voice mail, Email, Teleconferencing, Video conferencing, File Exchange, Bandwidth, Modem	2
		Network Topologies	2
		Network Types and their architecture	2
		Operating System and Windows	
		Operating System: Definition, Functions	1
		Types of Operating System	2
		Booting	1
		Internal & External Commands of DOS, Wild Card Characters	2
		Computer Virus, Cryptology	2
		Windows Operating System: Desktop, Start Menu, Control Panel, Windows Accessories	2
		Unit – 2:	
		MS Word & Word Processing	
		Meaning, Features, Advantages, Applications, Parts, Toolbars	1
		Creation, Opening, Editing, Saving, Moving, Copying, Text & paragraph Formatting	1
		Bullets & Numbering, Find & Replace, Insertion of Objects, Date & Time, Header, Footer	1
		Page Break, Autocorrect, Spelling & Grammar Checking, Working with Tables	1
		Mail Merge, Format Painter	1
		MS Excel	
		Features, Parts, Insertion, deletion,	1

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Cell Address, Entering & Editing data, Cell range, AutoFill.	
References: Relative, Absolute, Mixed, Data Sorting, Filtering, Validation	1
Chart, Graph, Macro	1
Functions	2
Consolidation, Grouping	1
Pivot Table and Pivot Chart	1
Unit – 3:	
RDMS & MS Access	
Data, Information, Database, File, Records, Fields, Features, Advantages & Limitations, Applications	1
Parts of MS Access, Table, Form	1
Queries	1
Reports	1
MS PowerPoint	
Features, Advantages, Applications, Parts, Menus, Toolbars.	1
Creation of Presentation, Saving, Opening, Closing, Slideshow	1
Inserting, Editing, Deleting Slides	1
Slide Views	1
Insertion of Objects & Charts	2
Custom Animation and Transition	2
Unit – 4:	
Internet, WWW, ISP, Firewall	2
E-Commerce: Meaning, Advantages, Disadvantages, Applications	2
E-Commerce Models	2
Payment Gateways	2
Class Test	2
Revision	3
Remedial	As per requirement

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22/12/23

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HOLY CROSS COLLEGE, AGARTALA

Department of Commerce

Class Planned for 2nd, 4th and 6th semester of academic session 2022-23

Faculty Name: **Dr. Shankha Shubhra Bhadra**

Semester	Subject	Topic	No. of classes
6 th	Financial Management (H8)	Unit – 2:	
		Cost of Capital & Financing Decision: Concept & Source	2
		Cost of Debt-Concept & Numerical	2
		Cost of Pref. Sh.- Concept & Numerical	2
		Cost of Equity- Concept & Numerical	2
		Cost of Retained Earning	1
		Theories of Capital Structure-Introduction	1
		Net Income Approach-Concept	2
		Net Operating Income Approach-Concept	2
		Traditional Approach-Concept	2
		Class Test	1
		Revision	2
		Remedial	As per requirement
		Unit – 3:	
		Dividend Decision: Concept	1
		Walter Model: Concept & Numerical	2
		Gorden Model: Concept & Numerical	2
		MM Hypothesis: Concept & Numerical	2
		Determinant of Dividend	1
		Divisible profit & Dividend	3
		Class Test	1
		Revision	2
		Remedial	As per requirement
4 th	Auditing and Assurance (H4)	Unit – 1:	
		Auditing: Concepts	2
		Auditing: Types	2
		Steps before Commencement	1
		Audit Program	1
		Concepts & Principles: Internal Check	1
		Concepts: Internal Control	1
		Distinction: Internal Check & Internal Control	1
		Auditor's Position: Cash	1
		Auditor's Position: Stock in Trade	1
		Auditor's Position: Large Dept. Store	1
		Revision	2
		Remedial	As per requirement
		Unit – 2:	

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	Auditing and Assurance (H4)	Vouching: Obj, Imp. & Factors	1
		Vouching of Cash Book	1
		Vouching of Cash Sales	1
		Vouching of Receipts of Debtor	1
		Vouching of Preliminary Expenses	1
		Vouching of Travelling Expenses	1
		Verification & Valuation: Concept	2
		Verification & Valuation: Auditors' Duties	1
		Verification & Valuation: Stock	1
		Verification & Valuation: Investment	1
		Verification & Valuation: Goodwill	1
		Verification & Valuation: Creditors	1
		Class Test	2
		Revision	2
		Remedial	As per requirement
		2 nd	Cost Accounting (H2)
Process costing: Theory	2		
Process: Numerical	2		
Process: Normal Loss & Abnormal Loss	4		
Joint Product & By Product	8		
Class Test	1		
Revision	2		
Remedial	As per requirement		
Cost Accounting (H2)	Unit – 4:		
	Marginal Costing: Concept		2
	Marginal Costing: PV Ratio		2
	Marginal Costing: BEP (units) & (value)		2
	Marginal Costing: Graphical representation		1
	Marginal Costing: Numerical		3
	Class Test		2
	Revision		4
Remedial	As per requirement		

[Signature]
12.08.23

Faculty Name: **Rajesh Kumar Das**

HEAD

Semester	Subject	Topic	No. of classes
		Unit – 1:	
		Indirect tax: Concept & framework	2
		Rational of GST	2

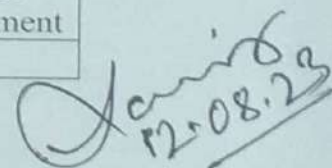
Department of Commerce,
HOLY CROSS COLLEGE, AGARTAL

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6 th	Indirect Taxation (H7)	GSTN-HSN Code, SAC Code	1
		GST Council	2
		Registration under GST	4
		Unit – 2:	
		GST: Levy & collection	6
		Valuation of GST	10
		Class Test	2
		Revision	4
		Remedial	As per requirement
4 th	Auditing and Assurance (H4)	Unit – 3:	
		Company audit: Concept	1
		Auditor's qualification	
		Auditor's appointment	1
		Auditor's rights & remuneration	1
		Auditor's duties and liabilities	1
		Divisible profit & Dividend	3
		Class Test	1
		Revision	2
	Remedial	As per requirement	
	Business Statistics (C1P4)	Unit – 3:	
		Statistics: Concepts	2
		Statistical data	3
		Measures of Central tendency	5
		Measures of Dispersion	4
		Unit – 4:	
		Correlation	4
		Regression	3
		Time series	5
		Class Test	2
		Revision	4
		Remedial	As per requirement
		Business Communication (C2P4)	Unit – 3:
	Business Communication: Concept		3
	Business Communication: Types		4
	Modern form of communication		3
	Unit – 4:		
	Business letter: Concept		2
Writing of various business letters	4		
Class Test	2		
Revision	4		

Department of Commerce

		Remedial	As per requirement
2 nd	Cost Accounting (H2)	Unit – 2:	
		Unit costing: Theory	2
		Unit costing: Cost sheet preparation	8
		Overheads: Theory	2
		Overheads: Practical problems	8
		Class Test	1
		Revision	2
		Remedial	As per requirement
		Business Mathematics (C1P2)	Unit – 3:
	Compound interest		2
	Annuities		2
	Functions: Basics		2
	Functions: Graphical representation		1
	Limit and Continuity		3
	Set theory		8
	Unit – 4:		
	Matrices		6
	Determinants		6
	Class Test		2
	Revision	4	
Remedial	As per requirement		


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 Department of Commerce,
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Faculty Name: **Mr Samir Bhowmik**

**Department of Commerce,
HOLY CROSS COLLEGE, AGARTALA**

Study Plan (Academic Year 2021-22)				
Name of Teacher:		Mr Samir Bhowmik		
Name of the Department:		Commerce		
Semester:		2 nd		
Subject with Paper code:		Cost Accounting (H2)		
Topic of Lecture	No of Hours Required		Reference Book/Text online Resources.	
	Theory	Practice		
Introduction of Cost Accounting, Objectives, Terminology of cost accounting	1	-	P.C Tulsian, Cost Accounting, S.Chand.	
Classification of Cost	1	-	P.C Tulsian, Cost Accounting, S.Chand	

Department of Commerce

Unit -I	Financial Accounting Vs Cost Accounting.	1		P.C Tulsian, Cost Accounting, S.Chand
	Method Of Costing and Technique of Costing	1		Basu and Das, Cost and Management Accounting, Rabindra Library Pvt.
	Element of Cost: Material, labour and Overheads.	1		P.C Tulsian, Cost Accounting, S.Chand
	Material Control Systems	1	3	Basu and Das, Cost and Management Accounting, Rabindra Library Pvt
	Pricing Issues of Materials	1	4	Basu and Das, Cost and Management Accounting, Rabindra Library Pvt
	Labour Costing: Different plan of Wages , labour Turnover .	1	3	Basu and Das, Cost and Management Accounting, Rabindra Library Pvt
Unit -II	Contract Costing : Concept And Application	1	-	Basu and Das, Cost and Management Accounting, Rabindra Library Pvt
	Preparation of Contract Ledger	1	5	Basu and Das, Cost and Management Accounting, Rabindra Library Pvt
Unit -IV	Standard Costing: Concept and terminology, Types	1		Lal and Srivastava, Cost Accounting, TMH
	Material Variance And Types	1	5	Lal and Srivastava, Cost Accounting, TMH
	Labour Variances and Types	1	4	P.C Tulsian, Cost Accounting, S.Chand.
Class Test/Assignment/Case Study/Presentation		Based on the Classes.		
Revision/Remedial Classes		As per the Requirement.		

Study Plan (Academic Year 2021-22)				
Name of Teacher:		Mr Samir Bhowmik		
Name of the Department:		Commerce		
Semester:		4 th		
Subject with Paper code:		Audit and Assurance (H4)		
Topic of Lecture	No of Hours Required		Reference Book/Text Book/Online Resources	
	Theory	Practice		
Unit -IV	Audit Report: Definition, Importance. Audit Certificate: Concept and Importance.	2	-	PL Ganguly, Audit and Assurance.
	Types of Audit Report	3	-	ICAI Study materials www.icaai.org

Department of Commerce

Format Of Audit Report and Specimen Copy.	3	-	ICAI Study materials www.icai.org
Grope Discussion	2		Based on the Classes
Class Test/Assignment/Case Study/Presentation	Based on the Classes.		
Revision/Remedial Classes	As per the Requirement.		

Study Plan (Academic Year 2021-22)				
Name of Teacher:		Mr Samir Bhowmik		
Name of the Department:		Commerce		
Semester:		6 th		
Subject with Paper code:		Indirect Taxes (H7)		
Topic of Lecture	No of Hours Required		Reference Book/Text Book/Online Resources	
	Theory	Practice		
Unit -III	Input tax Credit: Concept, Eligibility and Conditions of taking ITC.	2	-	V.S Singhanian, GST Laws, Taxmann Publication
	Cases in Which ITC is Not available	1		H.C Mehrotra and Prof V.P Agarwal, GST and Custom Duty, Sahitya Bhawan Publication.
	Tax Credit in respect of Capital Goods	1		ICAI Study materials www.icai.org
	Simple Problems	-	5	H.C Mehrotra and Prof V.P Agarwal, GST and Custom Duty, Sahitya Bhawan Publication
	GST Returns-GSTR1,GSTR2,GSTR3	3	1	www.gst.gov.in
	Time and Procedure of Filling Return, TDS and Refunds.	2	1	www.gst.gov.in
Unit -IV	Custom Duty: Concept, Terminology of Custom Laws	2		ICAI Study materials www.icai.org
	Types of Custom Duty	2		H.C Mehrotra and Prof V.P Agarwal, GST and Custom Duty, Sahitya Bhawan Publication.
	Calculation of Assessable value and Custom Duty Payable	1	5	H.C Mehrotra and Prof V.P Agarwal, GST and Custom Duty, Sahitya Bhawan Publication
Financial Management(H8)				
Unit-I	Financial Management : Concept , objective and scope.	1	-	Majamder ,Ali ,Nisha, Financial management, Dey Book Concern.

Department of Commerce

	Goal and Functions	2		Majamder ,Ali ,Nisha, Financial management, Dey Book Concern.
	Responsibility of Finance Manager	1		Majamder ,Ali ,Nisha, Financial management, Dey Book Concern.
	Time Value of Money	1	4	P.C Tulsian, Financial Management, S.Chand
Unit-IV	Working capital: Concept and Types	1	-	P.C Tulsian, Financial Management, S.Chand
	Working Capital : Simple Problems	-	2	P.C Tulsian, Financial Management, S.Chand
	Inventory Management : Concept and Simple Problems	1	3	P.C Tulsian, Financial Management, S.Chand
	Cash Management : Concept and Simple Problems	1	3	P.C Tulsian, Financial Management, S.Chand
	Receivable Management : Concept and Simple Problems	1	3	P.C Tulsian, Financial Management, S.Chand
Class Test/Assignment/Case Study/Presentation		Based on the Classes.		
Revision/Remedial Classes		As per the Requirement.		

Faculty Name: **Nazmun Nahar Begam**

Nazmun Nahar Begam
12.08.22

HEAD
Department of Commerce,
HOLY CROSS COLLEGE, AGARTALA

Semester	Subject	Topic	No. of classes
2ND SEM	BUSINESS ECONOMICS	Unit – 1:	
			2
		Elasticity of demand : measurement of elasticity of demand -price ,income and cross suggestion for details	4
		Average revenue and marginal revenue and elasticity of demand.	2
		Determinants of elasticity of demand and importance of elasticity of demand	1
		production function -law of variable proportion -short run analysis different stages of production. Theory of cost- short run and long run cost curve .	4
		Unit – 2:	
		Market structure and business decisions -objectives of business firm.	1
		Perfect competition-profit maximization and equilibrium of firm and industry-run supply curve - price and output determination.	3

Department of Commerce

		Derivation of supply curve from total cost curves.	1
		Monopoly-Determination of price under monopoly-equilibrium of a firm-comparison between perfect competition and monopoly-price determination.	3
		Factor pricing marginal productivity theory -determination of rent -wage - interest and profit.	3
		Class test , Revision	4
4th SEMESTER	BUSINESS ECONOMICS	Remedial	If required. 3
		Unit – 1	
		Macro-economic variables ,circular flow of income two,three ,four sector economy,relation between leakages and injections.	
		National income concepts- measurements, problems and precaution in estimation of NI.	4
		Role and Limitation of macro economic concept in business economic decision making.	1
		Unit-2	
		Theory of employment and income: Classical approach and simple Keynesian approach.	4
		Consumption function, relation between saving and consumption	2
		Investment function	2
		Functions and forms of money,Demand for money,measures of money supply.	
		Quantity theory of money,inflation,types,causes ,impacts and remedies.	3
		Class Test	1
		Revision	Till exam
		Remedial	If any
4th SEMESTER	BUSINESS ETHICS	Unit – 1	
		Introduction to ethics,meaning,canons of ethics,nature of ethics	2
		Ethical standards ,factors to be considered in making the ethical judgement.	2

Department of Commerce

6th SEMESTER		Unit – 2		
		Ethics at work place	1	
		Ethics in marketing and consumer protection	2+1=3	
		Ethics in accounting and Finance		
		Corporate Social responsibility	3	
		Class Test	2	
		Revision	4	
		Remedial	As per requirement	
	BANKING (G3)	Unit – 1		2
		Introduction to banking ,origin of banking,meaning and definition of banks		
		Types of banks ,history of Indian banking industry, structure of commercial banks in India.		2
		Sources of bank's income,annual report, balance sheet of a bank.		2
		Banking sector reforms in india		2
		Class test		2
		Revision		4
		Remedial		As per requirement

Faculty Name: **Mandrita Saha**

Mandrita Saha
12.08.23
HEAD
Department of Commerce,
HOLY CROSS COLLEGE, AGARTALA

Semester	Subject	Topic	No. of classes
2 nd	Business Mathematics (C1P2)	Unit – 4:	
		Diffentiation	
		Derivatives and its meaning,Rule of Differentiation	2
		Significance of Derivative	2
		Second Order Derivative	2
		Applications of Derivative: Increasing and Decreasing Functions	2
		Maxima and Minima	2
		Class Test	2
		Revision	2
		Remedial	As per requirement

Mandrita Saha
12.08.23
HEAD
Department of Commerce,
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Phone: 0381-2915930, +91 9402315672

email- principalhccagt@gmail.com

Web: www.holycrosscollege.in

DEPARTMENT OF HISTORY, HOLY CROSS COLLEGE, AGARTALA STUDY PLAN

TEACHER: - Debasish Datta

PERIOD: - April 17th 2023 onwards

2 nd sem hist hons	4 th sem hist hons	6 th sem hist hons (7 th paper)	6 th sem hist hons (8 th paper)	6 th sem hist hons (Project paper)		2 nd sem hist hons FNDC (Indian Heritage and Culture)	ADD-on Course
Unit IV C 1200- C 1550AD (II) 1. Rise of provincial kingdoms- Vijayanagar & Bahamani 2. Bhakti & Sufi Movements- Origin, Features & Impact	Unit III: National Movement (I) 1. Formation of Indian National Congress- background: Moderates and Extremists-their activities. 2. Partition of Bengal and Swadeshi Movement:	Unit III: Tripura – 1 1. Princely Tripura: social, political and economic conditions before the accession of Birchandra Manikya. 2. British relation with Chakla	Unit II: China II 1. May Fourth Movement: causes and significance 2. Kuomintang and the 1st United Front. 3. Chinese Communist party: origin	Name of the student	Title of the Project	Unit – II 1. Jainism and Buddhism 2. Sufism and Bhakti Movement 3. Socio- cultural Reform Movement with Special Reference to Raja Ram	1. Tripura Tourism- General Introduction/ Fundamentals of Tripura Tourism 2. Important Tourist destinations of Tripura – a. Agartala- Heritage Park, Ravindra Kanan, Jagannath Temple, Ujjayanta Palace, Malancha Niwas, Akhaura Integrated Check Post,
				Homchang Debbarma	Evaluate the importance of the Quit India movement in Assam?		
				Tesi Chowdhury	How the spread of 'Western Education' had taken place in colonial Assam?		
				Lalnunsiam Darlong	How did the revolt of 1857 affect the Princely State of Tripura?		
Sushma Debbarma	Discuss the idea of "Social Justice" by Dr. B.R. Ambedkar?						



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<p>3. Art & Architecture of the Sultanate period</p> <p>4. Economy of the Delhi Sultanate: Agriculture & Revenue System; Urbanization; trade & commerce.</p>	<p>Revolutionaries and their activities: Bengal, Punjab and Maharashtra.</p> <p>3. Gandhian Movements: Non-cooperation, Civil Disobedience, Quit India Movements: Women's participation.</p> <p>4. Subhash Chandra Bose and his role; INA, RIN Mutiny.</p>	<p>Roshanabad and Hill Tripura; appointment of Political Agent.</p> <p>3. Resistance Movements in the 19th century- Tipra (1850), Kuki (1860-61), Jamatia (1863).</p> <p>4. Revolt of 1857 and Tripura.</p>	<p>& growth: Role of Mao Tse Jung; 2nd United Front and Civil War.</p> <p>4. Chinese Revolution of 1949- causes and significance.</p>	<p>Tete Jamatia</p>	<p>Discuss the causes and effects of the Opium Wars in China?</p>	<p>Mohan Roy, Vidyasagar, Dayanand Saraswati, Jyotiba Phula and Ambedkar</p> <p>4. Gandhi and the National Movement</p>	<p>Pushvavanta Palace, Benuban Bihara, Secretariat, Albert Ekka Park, Laxmi Narayan Temple, Gedu Mian Mosque, MBB College & Stadium, Tripura University., Khumulwng Park. (Sharing with SB)</p> <p>b. Eco Tourism- Sepahijala Wildlife Sanctuary, Sepahijala, Tripura, Trishna Wildlife Sanctuary, South Tripura, Rowa Wildlife Sanctuary, North Tripura, Baramura Eco Park, Kalapania Eco Park, South Tripura, Tepania Eco Park, Gomati. Durgabari Tea Estate, Neermahal Water Palace,</p>
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Melaghar, Sepahijala District
 3. Museums, Architectural Heritage Tripura (Field Visit to Tripura Govt Museum at Ujjayanta Palace). (Sharing with SB)
 4. Basic Idea about 19 Indigenous communities of Tripura (Field visit to Tripura Tribal and Cultural Research Institute, Agartala) (Sharing with SD)
 5. Travel Agency, Tour Operation and Ticketing/ Computer Reservation (CRS) Knowledge/IRCTC/Via ((Sharing with SDN)
 6. Detailed information about Packaged tours, conducted tours, approved tour



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guidelines.

2nd sem History Hons

Unit – 4

1. Rise of the Sikhs-Mughal – Sikh relations till 1720
2. Rise of Shivaji – Mughal Maratha relations till 1707
3. Murshid Quli Khan – Land revenue & Administration
4. English East India Company's relation with Alivardi Khan & Siraj-ud-daula – Battle of Plassey

Behasish Datta

Department of History
Holy Cross College
Agartala.

Class Plan for October, 2022
By Subhash Debnath
Summer Session (Even Semester), 2022

B.A. 1st Semester

PAPER-I History of India up to C AD 650

Syllabus for B.A. 1st Semester (Major Course)

Unit: I: Pre-History and Proto-History (would be taught by - Sir Subhash Debnath)

1. General background: Physiography, environment, unity in diversity, people and language.
2. Sources: Literary and archaeological.
3. Pre-history: Palaeolithic, Mesolithic, Chalcolithic cultures — features and geographical distribution.
4. Proto- history: Harappan Civilization — origin, distribution, features, decline.

Subjects	Date	Medium of Instructions
1. Pre-history: Palaeolithic	17/10/2022	Lecture cum Discussion
2. Taken Leave	18/10/2022	Taken Leave
3. Pre-history: Palaeolithic.	20/10/2022	Lecture cum Discussion
4. Pre-history: Mesolithic.	21/10/2022	Lecture cum Discussion
5. Pre-history: Mesolithic.	27/10/2022	Lecture cum Discussion
6. Neolithic/Neolithic revolution	28/10/2022	ICT tools, Lecture, Blackboard
7. Chalcolithic cultures	31/10/2022	ICT tools, Lecture, Blackboard
	Total-7	

Class Plan for October, 2022

B.A. 3rd Semester

PAPER-III History of India AD 1550 - AD 1818

Syllabus for Semester — III

Unit-IV

1. Colonialist and Nationalist perceptions of 18th century India
2. Expansion and Consolidation of British power (1740s-1818): military expansions and commercial interests
3. British administration in India: Clive, Warren Hastings, Cornwallis, Wellesley
4. Impact of colonial policies: Bengal famine of 1770; Sannyasi and Fakir Uprisings.

Subjects	Date	Medium of Instructions
1. Taken Leave	18/10/2022	Taken Leave
2. Expansion and Consolidation of British power : 1 st Anglo Maratha War	19/10/2022	Lecture cum Discussion
3. Expansion and Consolidation of British power : 2 nd Anglo Maratha War	20/10/2022	ICT tools, Lecture, Blackboard
4. Expansion and Consolidation of British power : 3 rd Anglo Maratha War	21/10/2022	ICT tools, Lecture, Blackboard
5. Expansion and Consolidation of British power : 1 st Anglo Mysore war	27/10/2022	Lecture cum Discussion
6. Expansion and Consolidation of British power : 2 nd Anglo Mysore war	28/10/2022	Lecture cum Discussion
7. Expansion and Consolidation of British power : 3 rd Anglo Mysore war	31/10/2022	Lecture cum Discussion
8.	Total-06	

Class Plan for October, 2022

B.A. 5th Semester

PAPER-V Rise of Modern West: Mid 15th to Late 18th Centuries

Syllabus for Semester — V

UNIT-I

1. Crisis and decline of Feudalism in Western Europe and forms of survival in Eastern Europe.
2. Rise of absolute monarchies in England, France and Spain: reasons
3. Thirty Years' War and Treaty of Westphalia- causes and significance.
4. Economic origins of modern western society: Mercantilism, Commercial Revolution

Subjects	Date	Medium of Instructions
1. Taken Leave	18/10/2022	Taken Leave
2. Crisis and decline of Feudalism in Western Europe	26/10/2022	Lecture cum Discussion
3. Crisis and decline of Feudalism in Western Europe	27/10/2022	ICT tools, Lecture, Blackboard
4. Survival of feudalism in Eastern Europe	28/10/2022	ICT tools, Lecture, Blackboard
5. Rise of absolute monarchies	31/10/2022	Lecture cum Discussion
6.	Total-4	

Class Plan for October, 2022
B.A. 5th Semester

PAPER-VI Modern Europe and the World C 1808 AD- 1939 AD

Syllabus for Semester — V

Unit II:

1. Nationalism in Europe: Unification of Italy- Mazzini, Garibaldi and Cavour: Unification of Germany-Role of Bismarck.
2. The Eastern Question: background; the Crimean War; the Berlin Congress; Balkan Wars.
3. Russia: Modernization under Alexander II and his criticism; the Russian Revolution of 1917: Background and Impact.
4. American Civil War: causes, impact; Role of Abraham Lincoln.

Subjects	Date	Medium of Instructions
1. Nationalism in Europe:	17/10/2022	Lecture cum Discussion
2. Unification of Italy	19/10/2022	Lecture cum Discussion
3. Unification of Germany	20/10/2022	ICT tools, Lecture, Blackboard
4. Role of Bismarck.	21/10/2022	ICT tools, Lecture, Blackboard
5.	Total-04	

Total classes taken-21

Class Plan for November, 2022
By Subhash Debnath
Summer Session (Even Semester), 2022

B.A. 1st Semester

PAPER-I History of India up to C AD 650

Syllabus for B.A. 1st Semester (Major Course)

Unit: I: Pre-History and Proto-History

1. General background: Physiography, environment, unity in diversity, people and language.
2. Sources: Literary and archaeological.
3. Pre-history: Palaeolithic, Mesolithic, Chalcolithic cultures — features and geographical distribution.
4. Proto- history: Harappan Civilization — origin, distribution, features, decline.

Subjects	Date	Medium of Instructions
1. Taken Leave	1/11/2022	Taken Leave
2. Chalcolithic cultures — features	03/11/2022	Lecture, Blackboard
3. Class Test	4/11/2022	Class Test
4. Proto- history.	7/11/2022	Lecture, Blackboard
5. Harappan Civilization — Harappan Civilization- origin, distribution,	10/11/2022	Lecture, Blackboard
6. Harappan Civilization : features	14/11/2022	ICT tools, Lecture, Blackboard
7. Harappan Civilization- decline.	15/11/2022	ICT tools, Lecture, Blackboard
8. Harappan Civilization — Harappan Civilization- origin, distribution, features, decline.	16/11/2022	ICT tools, ppt
9. Physiography	11/11/2022	Lecture, Blackboard
10. unity in diversity	21/11/2022	Lecture, Blackboard
11. Sources: Literary and archaeological	24/11/2022	Lecture, Blackboard
12. Class test	28/11/2022	Class Test
	Total -11	

Class Plan for November, 2022

B.A. 3rd Semester

PAPER-III History of India AD 1550 - AD 1818

Syllabus for Semester — III

Unit-IV

1. Colonialist and Nationalist perceptions of 18th century India
2. Expansion and Consolidation of British power (1740s-1818): military expansions and commercial interests
3. British administration in India: Clive, Warren Hastings, Cornwallis, Wellesley
4. Impact of colonial policies: Bengal famine of 1770; Sannyasi and Fakir Uprisings.

Subjects	Date	Medium of Instructions
1. British administration in India: Clive	2/11/2022	Lecture, Blackboard
2. British administration in India: Warren Hastings	03/11/2022	Lecture, Blackboard
3. Taken class test	04/11/2022	Taken class test
4. British administration in India: Cornwallis	9/11/2022	ICT tools, Lecture, Blackboard
5. British administration in India: Wellesley	15/11/2022	Lecture, Blackboard
6. Bengal famine of 1770	17/11/2022	Lecture, Blackboard
7. Sannyasi and Fakir Uprising	18/11/2022	Lecture, Blackboard
8. Sannyasi and Fakir Uprising	22/11/2022	Lecture, Blackboard
9. Consolidation of British power (1740s-1818)	23/11/2022	Lecture, Blackboard
10. Museum Visit	25/11/2022	Museum Visit
11. Class Test	29/11/2022	Class Test
12.	Total-11	

Class Plan for November, 2022

B.A. 5th Semester

PAPER-V Rise of Modern West: Mid 15th to Late 18th Centuries

Syllabus for Semester — V

UNIT-I

1. Crisis and decline of Feudalism in Western Europe and forms of survival in Eastern Europe.
2. Rise of absolute monarchies in England, France and Spain: reasons
3. Thirty Years' War and Treaty of Westphalia- causes and significance.
4. Economic origins of modern western society: Mercantilism, Commercial Revolution

Subjects	Date	Medium of Instructions
1. Rise of absolute monarchies in England: reasons	02/11/2022	Lecture, Blackboard
2. Rise of absolute monarchies in France: reasons.	03/11/2022	Lecture, Blackboard
3. Rise of absolute monarchies in Spain: reasons	27/10/2022	Lecture, Blackboard
4. Class test	28/10/2022	
5. Rise of absolute monarchies	31/10/2022	Lecture, Blackboard
6.	Total-5	

Class Plan for November, 2022

B.A. 5th Semester

PAPER-VI Modern Europe and the World C 1808 AD- 1939 AD

Syllabus for Semester — V

Unit II:

1. Nationalism in Europe: Unification of Italy- Mazzini, Garibaldi and Cavour: Unification of Germany-Role of Bismarck.
2. The Eastern Question: background; the Crimean War; the Berlin Congress; Balkan Wars.
3. Russia: Modernization under Alexander II and his criticism; the Russian Revolution of 1917: Background and Impact.
4. American Civil War: causes, impact; Role of Abraham Lincoln.

Subjects	Date	Medium of Instructions
1. The Crimean War	09/11/2022	Lecture, Blackboard
2. Unification of Italy	04/11/2022	Lecture, Blackboard
3. Unification of Germany	08/11/2022	ICT tools, Lecture, Blackboard
4. Role of Bismarck.	10/11/2022	ICT tools, Lecture, Blackboard
5. The Eastern Question: background	15/11/2022	Lecture, Blackboard
6. the Crimean War	17/11/2022	Lecture, Blackboard
7. the Berlin Congress	18/11/2022	Lecture, Blackboard
8. Balkan Wars.	21/11/2022	Lecture, Blackboard
9. Balkan Wars.	23/11/2022	Lecture, Blackboard
10. Class test	29/11/2022	

Class Plan for December, 2022
By Subhash Debnath
Summer Session (Even Semester), 2022

B.A. 1st Semester

PAPER-I History of India up to C AD 650

Syllabus for B.A. 1st Semester (Major Course)

Unit: I: Pre-History and Proto-History

1. General background: Physiography, environment, unity in diversity, people and language.
2. Sources: Literary and archaeological.
3. Pre-history: Palaeolithic, Mesolithic, Chalcolithic cultures — features and geographical distribution.
4. Proto- history: Harappan Civilization — origin, distribution, features, decline.

Subjects	Date	Medium of Instructions
1. Taken Leave	1/12/2022	Taken Leave
2. Chalcolithic cultures — Geographical distribution	03/12/2022	Lecture, Blackboard
3. Class Test	4/12/2022	Class Test
4. Proto- history- Meaning and features	7/12/2022	Lecture, Blackboard
5. Indus valley civilization	12/12/2022	Lecture, Blackboard
6. Harappan Civilization : origin	14/12/2022	ICT tools, Lecture, Blackboard
7. Harappan Civilization- decline.	15/12/2022	ICT tools, Lecture, Blackboard
8. Harappan Civilization — Harappan Civilization- vs Vedic Civilization	16/12/2022	ICT tools, ppt
9. Physiography of India	12/12/2022	Revision
10. Unity in diversity	21/12/2022	Revision

Class Plan for December, 2022

B.A. 3rd Semester

PAPER-III History of India AD 1550 - AD 1818

Syllabus for Semester — III

Unit-IV

1. Colonialist and Nationalist perceptions of 18th century India
2. Expansion and Consolidation of British power (1740s-1818): military expansions and commercial interests
3. British administration in India: Clive, Warren Hastings, Cornwallis, Wellesley
4. Impact of colonial policies: Bengal famine of 1770; Sannyasi and Fakir Uprisings.

Subjects	Date	Medium of Instructions
1. Dual govt and Clive	2/12/2022	Lecture, Blackboard
2. Administrative policy of Warren Hastings	05/12/2022	Lecture, Blackboard
3. Taken class test	06/12/2022	Taken class test
4. Cornwallis: permanent settlement	9/12/2022	ICT tools, Lecture, Blackboard
5. Wellesley: subsidiary Alliance	15/12/2022	Lecture, Blackboard
6. Bengal famine of 1770 and its impact	19/12/2022	Lecture, Blackboard
7. Sannyasi and Fakir Uprising	20/12/2022	Revision
8. Sannyasi and Fakir Uprising	22/12/2022	Revision
9. Consolidation of British power (1740s-1818)	23/12/2022	Revision
10. Cornwallis: permanent settlement	26/12/2022	Revision
11. Colonialist and Nationalist perception of 18 th Century	28/12/2022	Revision
12.	Total-11	

B.A. 5th Semester

Class Plan for December, 2022

PAPER-V Rise of Modern West: Mid 15th to Late 18th Centuries

Syllabus for Semester — V

UNIT-I

1. Crisis and decline of Feudalism in Western Europe and forms of survival in Eastern Europe.
2. Rise of absolute monarchies in England, France and Spain: reasons
3. Thirty Years' War and Treaty of Westphalia- causes and significance.
4. Economic origins of modern western society: Mercantilism, Commercial Revolution
5. Price Revolution: Causes, Nature and Impact and Enclosure movement.

Subjects	Date	Medium of Instructions
1. Thirty Years' War	02/12/2022	Lecture, Blackboard
2. Treaty of Westphalia- causes and significance.	05/12/2022	Lecture, Blackboard
3. Economic origins of modern western society	7/12/2022	Lecture, Blackboard
4. Mercantilism,	9/12/2022	ICT tools, Lecture, Blackboard
5. Commercial Revolution	13/12/2022	Lecture, Blackboard
6.	Total-05	

Class Plan for December, 2022

B.A. 5th Semester

PAPER-VI Modern Europe and the World C 1808 AD- 1939 AD

Syllabus for Semester — V

Unit II:

1. Nationalism in Europe: Unification of Italy- Mazzini, Garibaldi and Cavour: Unification of Germany-Role of Bismarck.
2. The Eastern Question: background; the Crimean War; the Berlin Congress; Balkan Wars.
3. Russia: Modernization under Alexander II and his criticism; the Russian Revolution of 1917: Background and Impact.
4. American Civil War: causes, impact; Role of Abraham Lincoln.

Subjects	Date	Medium of Instructions
Russia: Modernization under Alexander II and his criticism	6/12/2022	Lecture cum Discussion
Russia: Modernization under Alexander II and his criticism	8/12/2022	Lecture cum Discussion
The Russian Revolution of 1917: Background and Impact.	12/12/2022	ICT tools, Lecture, Blackboard
The Russian Revolution of 1917: Background and Impact.	14/12/2022	ICT tools, Lecture, Blackboard
The Russian Revolution of 1917: Background and Impact.	16/12/2022	ICT tools, Lecture, Blackboard
American Civil War: causes, impact	19/12/2022	Lecture cum Discussion
American Civil War: causes, impact	20/12/2022	Lecture cum Discussion
Role of Abraham Lincoln.	21/12/2022	Lecture cum Discussion
Role of Abraham Lincoln.	22/12/2022	Lecture cum Discussion
	Total-09	

Class Plan for January-February, 2023

Date	Semester	Unit	Medium of Instructions
9/01/2023	1 st 3 rd 5 th	Unit-1 Unit-4 Unit-1 (Paper 5 th)	Lecture cum Discussion
10/01/2023	1 st 3 rd 5 th	Revision Class	ICT tools, Lecture, Blackboard
11/01/2023	1 st 3 rd	Revision Class	ICT tools, Lecture, Blackboard

	5 th		
12/01/2023	1 st 3 rd 5 th	Revision Class	Lecture cum Discussion
13/01/2023	1 st 3 rd 5 th	Unit-1 Unit-4 Unit-1 (Paper 5 th)	ICT tools, Lecture, Blackboard
16/01/2023	1 st 3 rd 5 th	Revision Class	Lecture cum Discussion
17/01/2023	1 st 3 rd 5 th	Revision Class	ICT tools, Lecture, Blackboard
18/01/2023	1 st 3 rd 5 th	Unit-1 Unit-4 Unit-1 (Paper 6 th)	Lecture cum Discussion
19/01/2023		Kok-Borok Day celebration	
24/01/2023	1 st 3 rd 5 th	Unit-1 Unit-4 Unit-1 (Paper 6 th)	ICT tools, Lecture, Blackboard
25/01/2023	1 st 3 rd 5 th	Revision Class	Lecture cum Discussion
26/01/2023		Republic Day	
27/01/2023		Tejas	
30/01/2023	1 st 3 rd 5 th	Revision Class	ICT tools, Lecture, Blackboard
31/01/2023		Departmental program	
1/02/2023	1 st , 3 rd & 5 th	Assignment Submission & Viva	
2/02/2023	1 st , 3 rd & 5 th	Special Lecture Assignment Submission & Viva	
3/02/2023	1 st 3 rd 5 th	Revision Class	Lecture cum Discussion
6/2/2023	1 st 3 rd 5 th	Revision Class	
7/02/2023	5 th	Assignment Submission & Viva	
8/2/2023	5 th	Assignment Submission & Viva	

Subhash Seknath

Rebasish Datta

Head

Department of History

Holy Cross College, Agartala.

DEPARTMENT OF HISTORY HOLY CROSS COLLEGE, AGARTALA

STUDY PLAN

TEACHER: - Susmita Banerjee

PERIOD: - April-May 2023

2 nd sem hist hons	4 th sem hist hons	6 th sem hist hons (7 th paper)	6 th sem hist hons (8 th paper)	2 nd sem BA GENERAL	6 th sem BA Gen SS3
<p><u>Unit II 650-C 1200AD (II)</u></p> <p>1. Economy: land grants and agrarian expansion; feudal relations</p> <p>2. Economy: urban centres, trade & commerce</p> <p>3. Rise & growth of regional languages with special reference to Bengali, Tamil & Marathi</p> <p>4. Socio-Cultural developments: Shankara & Bhakti philosophy; transformation of Buddhism-influences of tantric practices, art & architecture of the Pallavas & the Cholas</p>	<p><u>Unit: I: Colonial Polity and Popular Resistance</u></p> <p>1. Expansion and consolidation of British power in India (1818-1 563: Charter Acts of 1813 and 1833.</p> <p>2. Ideology of Expansion-Mercantilism, Orientalism.</p> <p>3. Popular resistance to colonial rule: a) Santhal - causes, nature and impact: b) Revolt of 1857- causes, nature, impact and historiography,</p> <p>4. Major constitutional reforms since 1909 to 1935.</p>	<p><u>Unit IV : Tripura –II</u></p> <p>1. Era of modernization and reformative measures — Birchandra Manikya to Bir Bikram Kishore Manikya.</p> <p>2. Social and political movements in Tripura (1935-1949): Janamangal Samiti, Reang uprising, Janashiksha movement, Prajamandal Samiti. Gana Mukti Parishad</p> <p>3. Rabindranath Tagore and Tripura; Contribution of Princely Court towards development of Bengali language and literature.</p> <p>4. World War I & II and Tripura; integration of Tripura to Indian Union.</p>	<p><u>Unit III: Japan I</u></p> <p>1. Tokugawa Shogunate-causes of decline</p> <p>2. The Perry Mission and Opening of Japan.</p> <p>3. Meiji Restoration; popular and democratic movements-Satsuma rebellion: Meiji constitution of 1889</p> <p>4. Modernization of Japan under Meijis: Education, society and economy.</p>	<p>Unit II</p> <p>1. Decline of Delhi Sultanate-causes</p> <p>2. Rise of Provincial Kingdoms-Vijayanagar and Bahamani</p> <p>3. Bhakti and Sufi Movements-Origin and Features</p> <p>4. Sher Shah-emergence, reforms, & achievements.</p>	<p>Unit II</p> <p>1. Human Rights Movement in India</p> <p>2. Role of National Human Rights Commission, State Human Rights Commission, Judiciary, NGO, Media</p> <p>3. Human Rights of Vulnerable Groups: Children, Women, Refugees, Internally Displaced Population</p> <p>4. Emerging Trends of Human Rights</p>

DEPARTMENT OF HISTORY HOLY CROSS COLLEGE, AGARTALA

LESSON PLAN

TEACHER: - Susmita Banerjee

PERIOD: - April-JULY

Date	E2	2 nd Sem	4 th sem	6 th sem	Mentoring	6 th sem (Project paper)	E6 SS3		2 nd sem BA GENERAL
17 th April	Class Taken	Class Taken	Nil	Nil	NIL	NIL	NIL		NIL
24 th April	Class Taken	Class Taken	NIL	NIL	NIL	Class Taken	NIL		NIL
25 th April	NIL	Class Taken	Class Taken	Class Taken	NIL	Class Taken	NIL		NIL
26 th April	NIL	Class Taken	NIL	NIL	NIL	Class Taken	NIL		Class Taken
27 th April	NIL	NIL	Class Taken with an extempore class	Class Taken	NIL	Class Taken	NIL		NIL

			test.						
28 th April		Class Taken				Class Taken	Class Taken		
Date	E2	2 nd Sem	4 th sem	6 th sem	Mentoring	6 th sem (Project paper)	E6 SS3		2 nd sem BA GENERAL AL
1 st May	Class Take n	Class Test	NIL	NIL	Class taken	Class Taken	NIL		NIL
2 nd	NIL	Class Taken	Class Take n	Class Taken	NIL	Class Taken	NIL		NIL
3 rd May	NIL	Class Taken	NIL	Class Taken	Class Taken	NIL	NIL		Class Taken

4 th May	NIL		Class Test and Class taken	Class Taken		Class Taken	NIL		NIL
Date	E2	2 nd Sem	4 th sem	6 th sem	Mentoring	6 th sem (Project paper)	E6 SS3	Add On Course	2 nd sem BA GENERAL AL
8 th May	Class Take n	Program m at college	NIL	NIL	NIL	Class Taken	NIL		NIL
10 th May	NIL	NIL	NIL	Class Taken	Class Taken	Class Taken	NIL		Class Taken
11 th May	NIL	NIL	Class Take n	Class Taken	NIL	Class Taken	NIL		Class Taken

12 th May		Class Taken	Programme by the Debate Club and by the Department of Political Science on Human Rights.						
15 th May	Class Take n	Class Taken	NIL		Class Taken	Class Taken	NIL	Class Taken	NIL
Date	E2	2 nd Sem	4 th sem	6 th sem	Mentoring	6 th sem (Project paper)	E6 SS3	Add On Course	2 nd sem BA GENERAL
16 th May	NIL	Class Taken	Class Take n	Class Taken	NIL	Class Taken	NIL	NIL	NIL
17 th May	NIL	NIL	NIL	Class Taken	Class Taken	NIL	NIL	NIL	Class Taken

18 th May	NIL	NIL	Class Take n	Class Taken	NIL	Class Taken	NIL	NIL	NIL
19 th May	NIL	Class Taken	Campus Bazar and Inspection				Class Taken	Campus Bazar and Inspection	
22 nd may	Class Take n	Class Taken	NIL	NIL	Class Taken	NIL	NIL	NIL	NIL
Date	E2	2nd Sem	4th sem	6th sem	Mentoring	6th sem (Project paper)	E6 SS3	Add On Course	2nd sem BA GENER AL
23 rd May	NIL	Class Taken	Class Taken	Special Lecture	NIL	Class taken	NIL	NIL	NIL

24 th May	NIL	NIL	NIL	Class Taken	Class Taken	NIL	NIL	NIL	Class Taken
25 th May	NIL	NIL	Class Taken	Class Taken	NIL	Class Taken	NIL	NIL	NIL
26 th May	NIL	Class Taken	NIL	NIL	Faculty Meeting	Class Taken	Class Taken	NIL	NIL

Prepared by:



Susmita Banerjee
Assistant Professor
Department of History
HCCA

Department of History
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Agartala.



Department of History
Holy Cross College
Agartala.

Study Plan:

Course Outcomes for B.A History (Honors):

B.A. 1st Semester

PAPER-I History of India up to C AD 650

Unit —IV: Post Mauryan development up to Harshavardhana

1. The Kushanas — Kanishka, their economy and culture; Satavahanas — Gautamiputra Satkarni.
2. Sangam Age: society, language and literature.
3. Administrative, economy and cultural life in the Gupta age.
4. Harshavardhana: emergence and estimate; beginning of feudalism.

Subjects	Date	Method of Teaching
The Kushanas — Kanishka, their economy and culture; Satavahanas — Gautamiputra Satkarni.	08/12/22	Lecture cum discussion
The Kushanas — Kanishka, their economy and culture; Satavahanas — Gautamiputra Satkarni.	09/12/22	Lecture cum discussion
Sangam Age: society, language and literature.	11/01/23	Lecture cum discussion
Administrative, economy and cultural life in the Gupta age.	11/01/23	Lecture cum discussion
Harshavardhana: emergence and estimate; beginning of feudalism.	15/01/23	Lecture cum discussion

B.A. 3rd Semester

PAPER-III History of India AD 1550-AD 1818

Syllabus for Semester — III

Unit-1

1. Sources and Historiography of Mughal History
2. Mughal- Afghan contest for supremacy
3. Sher Sha's administrative reforms
4. Establishment of Mughal rule: Babur and Humayun

Subjects	Date	Method of Teaching
Sources and Historiography of Mughal History	08/12/22	Lecture cum discussion
Sources and Historiography of Mughal History	09/12/22	Lecture cum discussion

Mughal- Afghan contest for supremacy	13/12/22	Lecture cum discussion
Mughal- Afghan contest for supremacy	14/12/22	Lecture cum discussion
Sher Sha's administrative reforms	15/12/22	Lecture cum discussion
Sher Sha's administrative reforms	9/01/22	Lecture cum discussion
Establishment of Mughal rule: Babur and Humayun	10/1/0122	Lecture cum discussion
Establishment of Mughal rule: Babur and Humayun	11/01/22	Lecture cum discussion

Prepared by,

Debnath 19/01/2023

Smita Debnath

Assistant Professor

Dept. of History,

Holy Cross College, Agartala

Department of History
Holy Cross College
Agartala.

Class plan - prepared by Smeta Debbarth

Date	1 st sem Honours	3 rd sem Honours	1 st Sem General
08/12/22	Class taken (Unit-4)		
09/12/22	Class taken(Unit-4)	Class taken(Unit-1)	
10/12/22	weekened		
11/12/22			
12/12/22		Class taken(Unit-1)	
13/12/22	Class taken(Unit-4)	Class taken(Unit-1)	Class taken(Unit-4)
14/12/22	Class taken(Unit-4)	Class taken(Unit-1)	
15/12/22	Class taken(Unit-4)	Class taken(Unit-1)	
16/12/22	Class taken(Unit-4)		
17/12/22	weekened		
18/12/22			
09/01/23	Class taken(Unit-4)	Class taken(Unit-1)	
11/01/23	Class taken(Unit-4)		Class taken(Unit-4)
10/01/23	Class taken(Unit-4)	Class taken(Unit-1)	
11/01/23		Class taken(Unit-1)	
12/01/23		Class taken(Unit-1)	
13/01/23	weekened		
14/01/23			
15/01/23	Class taken(Unit-4)	Class taken(Unit-1)	Class taken(Unit-4)
16/01/23	Class taken(Unit-4)		
17/01/23	Class taken(Unit-4)	Class taken(Unit-1)	

prepared by,
 Smeta Debbarth
 Assistant Professor
 Dept. of History
 Holy Cross college, Agartala

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 Holy Cross College
 Agartala.

DEPARTMENT OF HISTORY HOLY CROSS COLLEGE, AGARTALA

CLASS PLAN

TEACHER: -Subhash Debnath

PERIOD: - April 17, 2023- **May, 2023**

Sl. No.	Date	2 nd Sem (H)	2 nd Sem (G)	4 th Sem (H)	6 th Sem (7 th paper)	6 th Sem (8 th paper)	6 th Sem (Project paper)	2 nd Sem FNDC	Mentor-Mentee
1.	17/04/2023	Syllabus			Syllabus	Syllabus of 7 th paper	Project		
2.	18/04/2013		Delhi Sultanate		British interest in North East India		Project	FNDC2 (C)	
3.	19/04/2013					Advent of Europeans & Opening of China	Project		
4.	20/04/2013	Foundation of Delhi Sultanate			1 st Anglo-Burmese War class-1			FNDC2 (A)	
5.	24/04/2023	Consolidation of Delhi Sultanate					Project	FNDC2 (B)	
6.	25/04/2023		Establishment of Mughal rule in India		1 st Anglo-Burmese War class-2		Project	FNDC2 (C)	

7.	26/04/2023				Treaty of Yandaboo and its impact		Project		Mentoring
8.	27/04/2023 28/04/2023	Taken leave							
9.	1/5/2023	Consolidation of Delhi Sultanate: Role of Iltutmish			Annexation of Upper Assam and Lower Assam			FNDC2 (B)	
10.	2/5/2023		Mughal administration		Decline of Ahom dynasty		Project	FNDC2 (C)	
11.	3/5/2023				Decline of Ahom dynasty: Moamaria uprising		Project		
12.	4/5/2023	Delhi Sultanate: Role of Iltutmish				History of China	Project	FNDC2 (A)	
13.	08/5/2023	Sultana Razia		Rise of left wing Movement				Celebration of Rabindra Jayanti	
14.	10/5/2023			Rise of left wing Movement		Chinese Canton System			Mentoring
15.	11/5/2023	Delhi Sultanate: Role of Balban				Opening of China		Visited adopted village for NSS work	
16.	12/5/2023	Present as Mediator in Debate			Present as Mediator in the Debate competition				

		competition							
17.	15/5/2023	Gius-Ud- Din Balban and Theory of Kingship		left wing Movement and Indian Nationalism				FNDC2 (B)	
18.	16/5/2023		Rajput policy of Akbar			Chinese Tributary System	project	FNDC2 (C)	
19.	17/5/2023					History of China: 1 st Opium War			Mentor-Mentee 2 ND sem
20.	18/5/2023	Role of Gius-Ud -Din Balban				Anglo- Chinese war/ Opium War 2	project	FNDC2 (A)	
21.	19/05/2023	Campus Bazar					project		
22.	22/05/2023	Achievements of Balban		Communalism: Concept				FNDC2 (B)	Mentor-Mentee 4 th sem
23.	23/05/2023		Rajput policy of Aurangazeb				project	FNDC2 (C)	
24.	24/05/2023			Growth of Communalism		Annexation of Assam			Mentor-mentee 2 nd sem
25.	25/05/2023	Establishment of Tughlaq dynasty				Tea plantation in Assam.	NSS work. Conducted		

							Survey		
26.	26/05/2023	Faculty meeting 2 PM					project		

Subhash Debnath

Rebasish Datta

Head
Department of History
Holy Cross College, Agartala.

Lesson Plan for 1st, 3rd, and 5th Semester Theory Classes

Duration: September-December 2022

Holy Cross College



Dr. Anamika Bhaumik (Assistant Professor)

Department of Zoology

Semester:1st Semester (Honours) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
DECEMBER 2022						
December	Monday & Friday	50 Mins.	P1 - Unit 3: Vertebrata	5. Aves and Mammalia	4	Completed

Semester:1st Semester (General) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
DECEMBER 2022						
December	Thursday	50 Mins.	P1 - Unit 4: Chordata 2	4. Difference between sympathetic and para- sympathetic NS.	4	Completed
December	Thursday	50 Mins.	P1 - Unit 4: Chordata 2	5. Exoskeleton in Columba.	4	completed

Semester:3rd Semester (Honours) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
DECEMBER 2022						
December	Wednesday and Friday	50 Mins.	Genetics	Mode of inheritance of Sex-linked Chromosome.	8	Completed
December	Wednesday and Friday	50 Mins.	Genetics	One Gene- One Polypeptide hypothesis.		

Semester:3rd Semester (General) (Practical)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
DECEMBER 2022						
December	Thursday	50 Mins.	Estimation of Dissolved Oxygen.	Titration	1	Completed

Semester: 5th Semester (Honours) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
DECEMBER 2022						
December	Monday, Tuesday & Thursday		Animal Physiology	Generation of action and potential.	6	Completed

Semester: 5th Semester (General) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
DECEMBER 2022						
December	Wednesday & Thursday	50 Mins.	Microbiology and Immunology.	Microbes in Human gut and their beneficial growth.	8	Completed

Semester: 5th Semester (Honours) (Practical)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
DECEMBER 2022						
December	Monday	50 Mins.	Studies on blood cells & blood group.	Identification of Blood group, Haemin crystals & WBC.	2	Completed

Study Plan for 2nd, 4th, and 6th Semester Theory and Practical Classes

Duration: April-July 2023

Holy Cross College



Dr. Anamika Bhaumik (Assistant Professor)

Department of Zoology

Semester: 2nd Semester (Honours) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
APRIL 2023						
April	Monday & Thursday	50 Mins.	Sericulture	Species of Silkworm, Life History and rearing of Mulberry Silkworm, diseases of Bombyx mori and control measures	4	Completed
MAY 2023						
May	Monday & Thursday	50 Mins.	Vermiculture	Vermicomposting species	3	Completed
				Principle of vermicomposting		
				Importance of vermicomposting		
JUNE 2023						
June	Monday & Thursday	50 Mins.	Pollinators and Pest	Types of pollinators and pollination	5	Completed
				Types of pests, biological control of pest, pest complexes of paddy, stored grains and brinjal		

Semester: 2nd Semester (General) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
APRIL 2023						
April	Tuesday	50 Mins.	Biochemistry	Classification and Structure of Carbohydrate and Protein	4	Completed
MAY 2023						
May	Tuesday	50 Mins.	Biochemistry	Classification and Structure of Lipid	4	Completed
				Structure and Function of Nucleic Acid		
JUNE 2023						
June	Tuesday	50 Mins.	Biochemistry	Concept of pH and Buffer	4	Completed
				Enzymology		

Semester: 2nd Semester (General) (Practical)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
APRIL 2023						
April	Tuesday	50 Mins.	Identification	Identification of Specimens with Reason	4	Completed
MAY 2023						
May	Tuesday	50 Mins.	Histology	T. S. of Mammalian Tissue	4	Completed
			Embryology	Chick Embryo and Cell Division		
			Physiology	Staining, Mounting of squamous epithelium and blood film		
JUNE 2023						
June	Tuesday	50 Mins.	Biochemistry	Identification of Glucose, Starch & Protein	4	Completed

Semester: 4th Semester (Honours) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
APRIL 2023						
April	Tuesday and Thursday	50 Mins.	Tools and techniques in Biology	Principle and applications of pH meter and colorimeter	4	Completed
MAY 2023						
May	Tuesday and Thursday	50 Mins.	Tools and techniques in Biology	Principle and applications of centrifuges	5	Completed
				Principle and applications of chromatography		
JUNE 2023						
June	Tuesday and Thursday	50 Mins.	Tools and techniques in Biology	Principle and applications of electrophoresis	3	Completed

Semester: 4th Semester (Honours) (Practical)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
APRIL 2023						
April	Wednesday	50 Mins.	Identification	Identification of Specimens with Reasons	2	Completed
MAY 2023						
May	Wednesday	50 Mins.	Adaptive features	Adaptive features of specimens with Reasons	2	Completed
JUNE 2023						
June	Wednesday	50 Mins.	Adaptive features	Adaptive features of specimens with Reasons	2	Completed

Semester: 4th Semester (General) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
APRIL 2023						
April	Wednesday and Friday	50 Mins.	Vermiculture	Major vermicomposting species in India	5	Completed
				Principle, method & importance of vermicomposting		
MAY 2023						
May	Wednesday and Friday	50 Mins.	Prawn culture	Indian prawns of commercial value	4	Completed
				Prawn culture		
JUNE 2023						
June	Wednesday and Friday	50 Mins.	Prawn culture	Hazards in prawn farming	2	Completed

Semester: 6th Semester (Honours) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
APRIL 2023						
April	Monday, Thursday & Friday	50 Mins.	Biochemistry	Carbohydrate	6	Completed
				Protein		
MAY 2023						
May	Monday, Thursday & Friday	50 Mins.	Biochemistry	Lipid, Nucleic Acid	6	Completed
				Glycolysis, TCA Cycle and ATP Generation		
JUNE 2023						
June	Monday, Thursday & Friday	50 Mins.	Biochemistry	Enzymes and Enzyme Actions	7	Completed
				Concept and pH and Buffer		

Semester: 6th Semester (Honours) Project Activity

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
APRIL 2023						
April	Monday, Tuesday, Wednesday, Thursday & Friday	50 Mins.	Project	Introducing Project work, Selection and Distribution of Topics and Clearing doubts and queries	10	Completed
MAY 2023						
May	Monday, Tuesday, Wednesday, Thursday & Friday	50 Mins.	Project	Elaboration of Review of Literature, Methodology, Lab work	20	Completed
				Field work, Data Collection, Analysis, Report Preparation		

	Friday					
JUNE 2023						
June	Monday, Tuesday, Wednesday, Thursday & Friday	50 Mins.	Project	Discussion and Analysis about the outcome	15	Completed
				Submission of Final Report		

Study Plan for 2nd, 4th, and 6th Semester Theory Classes

Duration: April-July 2023

Holy Cross College



Dr. Parichita Ray Choudhury

(Assistant Professor)

Department of Zoology

Semester: 2nd Semester (Honours) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
APRIL 2023						
April	Wednesday	2x50 Min= 100Mins.	Developmental Biology & Histology	Histology of skin, liver, kidney and spleen in mammals	4	Completed
MAY 2023						
May	Wednesday	2X50 Mins= 100 Mins.	Developmental Biology & Histology	Gametogenesis, Structure of Sperm and Ovum	4	Completed
				Egg Types & Cleavage		
JUNE 2023						
June	Wednesday	2x50 Min= 100Mins.	Developmental Biology & Histology	Physico-chemical events in Fertilization	4	Completed
				Gastrulation in Chick Embryo		
JULY 2023						
July	Wednesday	2x50 Min= 100Mins	Developmental Biology & Histology	Extra Embryonic Membrane in Chick	4	Completed
				Placenta, its types and function		

Semester: 2nd Semester (Honours) (Practical)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
APRIL 2023						
April	Monday	50 Mins.	Identification	Invertebrates	6	Completed
				Vertebrates		
				Stages of Mitosis		
MAY 2023						
May	Monday	50 Mins.	Embryology	Chick Embryo	4	Completed
			Histology	T. S. of Mammalian Tissue		
JUNE 2023						
June	Monday	50 Mins.	Preparation	Blood film (human)	4	Completed
				Onion root tip for chromosomal studies		
JULY 2023						
July	Monday	50 Mins.	Preparation	Buffer & determination of pH	4	Completed
			Field Report	Field Visit and Preparation of Report		

Semester: 2nd Semester (General) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
APRIL 2023						
April	Monday & Thursday	2x50 Min= 100Mins.	Developmental Biology & Histology	Histology of skin, liver, Pancreas, Thyroid in mammals	4	Completed
MAY 2023						
May	Monday & Thursday	2x50 Min= 100Mins	Developmental Biology & Histology	Histology of Testis and Ovary in mammals	4	Completed
				Gametogenesis, Structure of Sperm and Ovum		
JUNE 2023						
June	Monday & Thursday	2x50 Min= 100Mins.	Developmental Biology & Histology	Egg Types	6	Pending
				Cleavage and blastulation in Amphibians		
				Fate map in frog		
JUNE 2023						
July	Monday & Thursday	2x50 Min= 100Mins	Developmental Biology & Histology	Gastrulation in Frog	6	Completed
				Extra embryonic membrane formation in chick embryo		
				Placenta: Types, Formation and function		

Semester: 4th Semester (Honours) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
APRIL 2023						
April	Wednesday, Thursday, Friday	3x50 Mins = 150 Mins	Tools & Techniques in Biology	Principle and applications Light microscope (Bright-field and Phase Contrast microscopes)	4	Completed
MAY 2023						
May	Wednesday, Thursday, Friday	3x50 Mins = 150 Mins	Tools & Techniques in Biology	Principle and applications Electron Microscope (SEM & TEM)	4	Completed
JUNE 2023						
June	Wednesday, Thursday, Friday	3x50 Mins = 150 Mins.	Tools & Techniques in Biology	Micro-techniques: Fixation, dehydration, embedding, block making, microtomy	4	Completed
JULY 2023						
July	Wednesday, Thursday, Friday	3x50 Mins = 150 Mins.	Tools & Techniques in Biology	Principle of Staining: acid and basic stains, Single and double staining methods.	4	Completed

Semester: 4th Semester (General) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
APRIL 2023						
April	Tuesday	50 Mins.	Molecular Biology	Mode of Inheritance	3	Completed
				DNA as Genetic Material		
MAY 2023						
May	Tuesday	50 Mins.	Molecular Biology	Replication	4	Completed
				Transcription		
JUNE 2023						
June	Tuesday	50 Mins.	Molecular Biology	Translation	2	Completed
JULY 2023						
July	Tuesday	50 Mins.	Molecular Biology	Translation	2	Completed

Semester: 4th Semester (General) (Practical)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
APRIL 2023						
April	Monday	50 Mins.	Spotting & Identification	<i>Tryporyza, Sitpphilus, Bandocoota, Bombyx, Apis, Perionyx, Macrobrachium</i>	6	Completed
MAY 2023						
May	Monday	50 Mins.	Identification	Mitotic stages	4	Completed
				Meiotic stages		
JUNE 2023						
June	Monday	50 Mins.	Preparation & Staining	Onion root tip for chromosomal studies	4	Completed
JULY 2023						
July	Monday	50 Mins.	Preparation and study	Bar body in man	4	Completed

Semester: 6th Semester (Honours) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
APRIL 2023						
April	Tuesday	2x50 Min= 100Mins.	Evolution	Origin of life	6	Completed
				Basic ideas on Geologic time scale		
MAY 2023						
May	Tuesday	2x50 Min= 100Min	Evolution	Neo Darwinism	3	Completed
JUNE 2023						
June	Tuesday	2x50 Min= 100Mins	Evolution	Hardy Weinberg Principle and factors influencing changes in gene frequency	4	Completed
				Types of Natural selections		
JULY 2023						
July	Tuesday	2x50 Min= 100Mins	Evolution	Isolating Mechanisms	4	Completed
				Modes of Speciation		

Semester: 6th Semester (Honours) Project Activity

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
APRIL 2023						
April	Monday-Friday	5x 50 Mins= 250 mins	Project	Introducing Project work, Selection and Distribution of Topics and Clearing doubts and queries	10	Completed
MAY 2023						
May	Tuesday & Thursday	5x 50 Mins= 250 mins	Project	Elaboration of Methodology, Lab work Field work, Data Collection, Analysis, Report Preparation	10	Completed
JUNE 2023						
June	Tuesday & Thursday	5x 50 Mins= 250 mins	Project	Discussion and Analysis about the outcome	10	Completed
JULY 2023						
July	Tuesday & Thursday	5x 50 Mins= 250 mins	Project	Bibliography, Certificate preparation Submission of Final Report	6	Completed

Study Plan for 1st, 3rd, and 5th Semester Theory Classes

Duration: September-December, 2022

Holy Cross College



Dr. Parichita Ray Choudhury (Assistant Professor)

Department of Zoology

Semester: 1st Semester (Honours) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Minimum No. of Periods/Classes Required	Status
DECEMBER 2022						
December	Monday & Tuesday	50 Mins.	Taxonomy & Classification	Classification Up To Subclass	5	Completed

Semester: 1st Semester (General) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Minimum No. of Periods/Classes Required	Status
DECEMBER 2022						
December	Thursday & Friday	50 Mins.	Chordata I	Type Study: Lates	5	Completed

Semester: 3rd Semester (Honours) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Minimum No. of Periods/Classes Required	Status
DECEMBER 2022						
December	Monday & Tuesday	50 Mins.	Ecology	Community Ecology	6	Completed

Semester: 3rd Semester (General) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Minimum No. of Periods/Classes Required	Status
DECEMBER 2022						
December	Tuesday & Wednesday	50 Mins.	Taxonomy & Evolution	Isolation, Adaptation, Mimicry	7	Completed

Semester: 5th Semester (Honours) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Minimum No. of Periods/Classes Required	Status
DECEMBER 2022						
December	Wedday & Thursday	50 Mins.	Biostatistics	T test and Chi Square	6	Completed

Semester: 3rd Semester (General) (Practical)

Month	Day	Duration of Class	Topic Name	Lesson Name	Minimum No. of Periods/Classes Required	Status
DECEMBER 2022						
December	Thursday	50 Mins.	Adaptive Features	Detection & Explanation	4	Pending

Semester: 5th Semester (Honours) (Practical)

Month	Day	Duration of Class	Topic Name	Lesson Name	Minimum No. of Periods/Classes Required	Status
DECEMBER 2022						
December	Wednesday	50 Mins.	Biostatistics	Chi Square Test	4	Pending

Study Plan for 2nd, 4nd, and 6th Semester Classes

Duration: April-July 2023

Holy Cross College



Dr. Rumki Nath Sen (Assistant Professor and HoD)

Department of Zoology

Semester:2nd Semester (Honours) Theory

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
APRIL 2023						
April	Monday, Thursday.	50 Mins Theory:50*2=100 mins	Unit 1: Cell Biology, Histology and Developmental Biology	Concept of prokaryotic and eukaryotic cells, Ultrastructure and function of plasmamembrane, Cell organelles	4	Completed
MAY 2023						
May	Monday, Thursday.	50 Mins. Theory:50*2=100 mins	Unit 1: Cell Biology, Histology and Developmental Biology	Cell organelles continued, discussion and powerpoint presentation preparation by the students	4	Completed
JUNE 2023						
June	Monday, Thursday.	50 Mins. Theory:50*2=100 mins	Unit 1: Cell Biology, Histology and Developmental Biology	Chromatin: organization of euchromatin and heterochromatin, Chromosome morphology, classification, nucleosome model of chromosome ultrastructure, Special types of chromosomes: polytene and lamp brush chromosome. Cell cycle: Phases and regulation	6	Completed

JULY 2023						
July	Monday, Thursday.	50 Mins. Theory:50*2=100 mins	Unit 1: Cell Biology, Histology and Developmental Biology	Cell division: Mitosis, Meiosis, Synaptonemal complex, Cancer, Outline classification of animal tissue and their distribution, histology of skeletal muscle fibre.	7	Completed

Semester:2nd Semester (General) Theory

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
APRIL 2023						
April	Friday	50 Mins.	Unit 1: Cell Biology, Histology and Developmental Biology	Cell Organelles: Ultrastructure and function of plasma membrane, Golgi complex.	2	Completed
MAY 2023						

May	Friday	50 Mins.	Unit 1: Cell Biology, Histology and Developmental Biology	Cell Organelles: Mitochondria and Endoplasmic Reticulum	2	Completed
JUNE 2023						
June	Friday	50 Mins.	Unit 1: Cell Biology, Histology and Developmental Biology	Ultra-structure of chromosome with special reference to nucleosome solenoid model, Cell cycle, Mitotic cell division.	3	Completed
JULY 2023						
July	Friday	50 Mins.	Unit 1: Cell Biology, Histology and Developmental Biology	Meiotic cell division, Animal tissue: outline classification, distribution and function.	3	Completed

Semester: 4th Semester (Honours) Theory

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
APRIL 2023						
April	Tuesday	50 Mins.	Unit 1: Microbiology, Parasitology and Immunology	Introduction to parasitology, host parasite concept and different terminology of parasitology. Life cycle, pathogenicity, clinical features and control measures of <i>Plasmodium vivax</i>	2	Completed
MAY 2023						
May	Tuesday	50 Mins.	Unit 1: Microbiology, Parasitology and Immunology	Life cycle, pathogenicity, clinical features and control measures of <i>Plasmodium falciparum</i> (Theory) Life cycle, pathogenicity, clinical features and control measures of <i>Wuchereria bancrofti</i>	3	Completed
JUNE 2023						
June	Tuesday	50 Mins.	Unit 1: Microbiology, Parasitology and Immunology	Life cycle, pathogenicity, clinical features and control measures of <i>Ancylostoma duodenale</i> . Common microbial diseases: Cholera and Amoebiasis: their treatment and control.	3	Completed
JULY 2023						

July	Tuesday	50 Mins.	Unit 1: Microbiology, Parasitology and Immunology	Host-parasite interaction with reference to roundworm diseases Host-parasite interaction with reference to <i>Taenia. sp</i>	3	Completed
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Semester:4th Semester (Honours) Practical

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
APRIL 2023						
April	Monday	50*2=100 Mins.	Microbiology and Parasitology	Spot Identification of parasites Gram staining of bacteria	4	Completed
MAY 2023						
May	Monday	50*2=100 Mins.	Microbiology and Parasitology	Collection and preparation of gut parasite of fowl. Collection and preparation of gut parasite of cockroach.	4	Completed
JUNE 2023						
June	Monday	50*2=100 Mins.	Microbiology and Parasitology	Gram staining of bacteria (Revision) Collection and preparation of gut parasite of cockroach. (Revision)	4	Completed
JULY 2023						

July	Monday	50*2=100 Mins.	Microbiology and Parasitology	Double staining method of liver, kidney and testis tissue	4	Completed
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Semester: 4th Semester (General) Theory

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
APRIL 2023						
April	Thursday	50 Mins.	Unit 1: Genetics	Mendelian principles of segregation and independent assortment	1	Completed
MAY 2023						
May	Thursday	50 Mins.	Unit 1: Genetics	Sex determination in drosophila and man. Sex chromatin or Barr body and its significance	2	Completed
JUNE 2022						
June	Thursday	50 Mins.	Unit 1: Genetics	Concept of alleles and multiple alleles, Linkage: Complete and incomplete linkage, linkage group.	2	Completed
JULY 2022						

July	Thursday	50 Mins	Unit 1: Genetics	Recombination, Cytoplasmic inheritance, Congenital chromosomal abnormalities.	3	Completed
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Semester: 4th Semester (General) Practical

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
APRIL 2023						
April	Tuesday	50*2=100 minutes	Applied Zoology	Spotting and economic importance of supplied specimen.	2	Completed
MAY 2023						
May	Tuesday	50*2=100 minutes	Genetics	Identification of mitotic, meiotic cell division stages	4	Completed
JUNE 2023						
June	Tuesday	50*2=100 minutes	Genetics	Study of Barr body in man Study of Barr body in man (revision)	4	Completed
JULY 2023						
July	Tuesday	50*2=100 minutes	Genetics	Preparation and staining of cell division stages from onion root tip.	4	Completed

Semester: 6th Semester (Honours) Theory

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
APRIL 2023						
April	Wednesday, Friday	50*2=100 Mins.	Molecular Biology and Genetic Engineering	DNA replication, Transcription in prokaryotes.	2	Completed
MAY 2023						
May	Wednesday, Friday	50*2=100 Mins.	Molecular Biology and Genetic Engineering	Translation in prokaryotes, Genetic basis of cancer: Proto-oncogene and viral oncogene, transformation of proto-oncogene to oncogene	4	Completed
JUNE 2023						
June	Wednesday, Friday	50*2=100 Mins.	Molecular Biology and Genetic Engineering	Genetic basis of cancer: Functional importance of p53 tumor suppressor gene, oncogenes in human cancer. Genetic regulation in prokaryotes: Lac operon	4	Completed
JULY 2023						
July	Wednesday, Friday	50*2=100 Mins.	Molecular Biology and Genetic	Recombinant DNA technology and its application: cloning vectors, types of endonucleases and their roles. Recombinant DNA technology and its	5	Completed

			Engineering	<p>application:construction of chimeric DNA, copying m-RNA into cDNA clones with desired DNA, Potential benefits and hazards of genetic engineering.</p> <p>Idea of complementation and non-complementation, Benzer's rII locus.</p> <p>Concept of cistron, recon and muton</p>		
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Semester: 6th Semester (Honours) Practical

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
APRIL 2023						
April	Wednesday	50*2=100 Mins.	Karyotype analysis, Problems related to Hardy-Weinberg equilibrium	<p>Identification with character of human syndrome from the karyotype provided.</p> <p>Determination of genotype frequency and allele frequency with example.</p>	4	Completed Continued
MAY 2023						

May	Wednesday	50*2=100 Mins.	Problems related to Hardy-Weinberg equilibrium, Salivary amylase activity	Determination of genotype frequency and allele frequency with example. Study of Salivary amylase activity	4	Continued Completed
JUNE 2023						
June	Wednesday, Friday	50*2=100 Mins.	Salivary amylase activity, Problems related to Hardy-Weinberg equilibrium	Study of Salivary amylase activity (revision), Determination of genotype frequency and allele frequency with example.	4	Completed
JULY 2023						
July	Wednesday, Friday	50*2=100 Mins.	Quantitative estimation of glucose	Quantitative estimation of glucose by titrimetric method. Quantitative estimation of glucose by titrimetric method. (revision)	4	Completed

Study Plan for 1st, 3rd, and 5th Semester Classes

Duration: September-December 2022

Holy Cross College



Dr. Rumki Nath Sen (Assistant Professor and HoD)

Department of Zoology

Semester:1stSemester (Honours) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
SEPTEMBER 2022						
September	Tuesday, Wednesday, Thursday.	50 Mins.	P1 - Unit 1: Invertebrate 1	1. Protozoa	4	Completed
OCTOBER 2022						
October	Tuesday, Wednesday, Thursday.	50 Mins.	P1 - Unit 1: Invertebrate 1	2. Porifera	4	Completed
NOVEMBER 2022						
November	Tuesday, Wednesday, Thursday.	50 Mins.	P1 - Unit 1: Invertebrate 1	3. Cnidaria 4. Helminthes	6	Completed
DECEMBER 2022						
December	Tuesday, Wednesday, Thursday.	50 Mins.	P1 - Unit 1: Invertebrate 1	4. Helminthes continued 5. Annelida	6	Completed

Semester:1st Semester (General) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
SEPTEMBER 2022						
September	Wednesday	50 Mins.	P1 - Unit 1: Invertebrate 1	1. <i>Paramecium</i>	3	Completed
OCTOBER 2022						
October	Wednesday	50 Mins.	P1 - Unit 1: Invertebrate 1	2. <i>Sycon</i>	3	Completed
NOVEMBER 2022						
November	Wednesday	50 Mins.	P1 - Unit 1: Invertebrate 1	3. <i>Obelia</i>	3	Completed
DECEMBER 2022						
December	Wednesday	50 Mins.	P1 - Unit 1: Invertebrate 1	4. <i>Fasciola</i>	3	Completed

Semester:3rdSemester (Honours) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
SEPTEMBER 2022						
September	Thursday and Friday	50 Mins.	3A – Unit 1: Genetics	1. DNA as Genetic Material, Concept of alleles and multiple alleles.	4	Completed
OCTOBER 2022						
October	Thursday and Friday	50 Mins.	3A – Unit 1: Genetics	2. Linkage and gene mapping	4	Completed
NOVEMBER 2022						
November	Thursday and Friday	50 Mins.	3A – Unit 1: Genetics	3. Crossing over and Recombination	4	Completed
DECEMBER 2022						
December	Thursday and Friday	50 Mins.	3A – Unit 1: Genetics	4. Mode of inheritance	6	Completed
December	Thursday and Friday	50 Mins.		5. Mutation		

Semester:3rdSemester (Honours) (Practical)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
SEPTEMBER 2022						
September	Monday	100 Mins.	Spot Identification.	Spot Identification of Soil Biotic Community. a) Soil Mite, b) Termite, c) Collembola, d) Ants, and e) Earthworm.	2	Completed
OCTOBER 2022						
October	Monday	100 Mins.	Capture-Recapture method.	2. Estimation of Population by Capture – Recapture method.	2	Completed
NOVEMBER 2022						
November	Monday	100 Mins.	Titration of DO ₂	3. Estimation of Dissolved oxygen by Winkler method.	2	Completed
DECEMBER 2022						
December	Monday	100 Mins.		4. Pedigree analysis	4	Completed

Semester: 5th Semester (Honours) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
SEPTEMBER 2022						
September	Monday, Wednesday	50 Mins.	5A – Unit 3: Biodiversity	1. Concept of Biodiversity, hierarchical levels	2	Completed
September	Monday, Wednesday	50 Mins.	5A – Unit 3: Biodiversity	2. Biodiversity as resource, Depletion of biodiversity and its causes, Hot Spots of biodiversity.	3	Completed
OCTOBER 2022						
October	Monday, Wednesday	50 Mins.	5A – Unit 3: Biodiversity	3. Strategies for conservation of biodiversity, IUCN Categories	2	Completed
NOVEMBER 2022						
November	Monday, Wednesday	50 Mins.	5A – Unit 3: Biodiversity	4. Wildlife Conservation with reference to Tiger and Rhino.	2	Completed
DECEMBER 2022						
December	Monday, Wednesday	50 Mins	5A – Unit 3: Biodiversity	5. Protected Area, Wildlife protection act, CITES	2	Completed

Semester: 5th Semester (General) (Theory)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
SEPTEMBER 2022						
September	Monday, Tuesday, Friday.	50 Mins.	5A – Unit 1: Parasitology and Medical Entomology	1. Life Cycle, pathogenicity, clinical features and control measures of <i>Plasmodium vivax</i> , <i>Entamoeba histolytica</i> .	4	Completed
OCTOBER 2022						
October	Monday, Tuesday, Friday.	50 Mins.	5A – Unit 1: Parasitology and Medical Entomology	2. Life Cycle, pathogenicity, clinical features and control measures of <i>Ascaris lumbricoides</i> . Parasitic adaptations in Helminthes with reference to <i>Ascaris lumbricoides</i> & <i>Taenia solium</i> .	3	Completed
NOVEMBER 2022						
November	Monday, Tuesday, Friday.	50 Mins.	5A – Unit 1: Parasitology and Medical Entomology	3. Common Insect Vectors related to public health. Mosquitos, Housefly, Bed bug, Head louse.	4	Completed
DECEMBER 2022						
December	Monday, Tuesday,	50 Mins.	5A – Unit 1: Parasitology	4. Revision	6	Completed

	Friday.		and Medical Entomology			
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Semester: 5th Semester (General) (Practical)

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
SEPTEMBER 2022						
September	Tuesday, Thursday.	100 Mins.	1. Identification with reasons.	a) <i>Entamoeba</i> sp, b) <i>Giardia</i> sp, c) <i>Plasmodium</i> sp, d) <i>Ascaris</i> sp, e) <i>Culex</i> sp, f) <i>Musca</i> sp, g) <i>Cimex</i> sp.	2	Completed
OCTOBER 2022						
October	Tuesday, Thursday.	100 Mins.	2. Study of Adaptive Features.	Adaptive features in <i>Fasciola</i> sp, <i>Ascaris</i> sp, <i>Taenia</i> sp.	2	Completed
NOVEMBER 2022						
November	Tuesday, Thursday.	100 Mins.	3. Collection & preparation of Gut Fauna.	Collection & preparation of Gut Fauna in cultivable fish and fowl.	2	Completed
DECEMBER 2022						
December	Tuesday, Thursday.	100 Mins.	4. Life history stages of Mosquito.	4. Submission of life history stages of mosquito.	2	Completed

Study Plan for 2nd, 4nd, and 6th Semester Classes

Duration: April-July 2023

Holy Cross College



Dr. Subhalaxmi Bhattacharjee (Assistant Professor)

Department of Zoology

Semester:2nd Semester (Honours) Theory

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
APRIL 2023						
April	Tuesday, Friday	50 Mins	Unit 1: Cell Biology, Histology and Developmental Biology	Gametogenesis, Ultrastructure of sperm and ovum.	4	Completed
MAY 2023						
May	Tuesday, Friday	50 Mins.	Unit 2: Applied Zoology	<ol style="list-style-type: none"> 1. RECOGNITION OF DIFFERENT SPECIES AND POLYMORPHS OF <i>Apis</i> SPECIES 2. DIFFERENT TECHNIQUES OF APICULTURE 3. DIFFERENT PRODUCTS AND BY PRODUCTS OF APICULTURE 4. DIFFERENT DISEASES OF HONEY BEE 5. COMPOSITION AND MEDICINAL VALUES OF HONEY 6. DESCRIPTION OF BEE HIVE AND BEE DANCE 	4	Completed
JUNE 2023						

June	Thursday, Friday	50 Mins.	Unit 2: Applied Zoology	<ul style="list-style-type: none"> ● DIFFERENT REARING PRACTICES OF DUCK AND CHICKEN ● DIFFERENT BREEDS FOR CHICKEN FARMING ● DIFFERENT PRACTICES OF CHICKEN FARMING ● DIFFERENT DISEASES AND PREVENTIVE MEASURES OF PISCICULTURE ● DIFFERENT BREEDS OF CARPS ● DIFFERENT PRACTICES OF FISH PICSICULTURE ● PRINCIPLES, INDUCED BREEDING ● IDENTIFICATION OF MALE FEMALE CARPS ● DIFFERENT FISH DISEASES AND CONTROL ● HYBRIDIZATION ● SHORT TOPIC PEARLCULTUR 	6	Completed
JULY 2023						
July	Thursday, Friday	50 Mins.	Unit 2: Applied Zoology	<ul style="list-style-type: none"> ● VARIETIES OF PRAWN ● PENAEID AND NON- PENAEID GROUP ● PRINCIPLES AND TYPES OF PRAWN CULTURE ● PROSPECTS AND HAZARDS OF PRAWNCULTURE 	6	Completed

				<ul style="list-style-type: none"> ● DIFFERENT DISEASE AND CONTROL 		
				<ul style="list-style-type: none"> ● SPERMATOGENESIS ● OOGENESIS ● ULTRASTRUCTURE OF MATURE SPERM ● DIFFERENT STAGES OF FOLLICULAR DEVELOPMENT ● ULTRASTRUCTURE OF DIFFERENT FOLLICLES 		

Semester:2nd Semester (General) Theory

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
APRIL 2023						
April	Wednesday	50 Mins.	Unit 1: Cell Biology, Histology and Developmental Biology	Gametogenesis, Ultrastructure of sperm and ovum.	2	Completed
MAY 2023						

May	Wednesday	50 Mins.	Unit 2: Biochemistry, Animal Physiology and Endocrinology	1. Heterotrophic Nutrition, 2. Exchange of Gases, 3. Excretion,	6	Completed
JUNE 2023						
June	Wednesday	50 Mins.	Unit 2: Biochemistry, Animal Physiology and Endocrinology	4. Physiology of Nerve Impulse conduction, 5. Organisation and Function of major Endocrine glands; with special reference to Pituitary, Thyroid, Testis and Ovary	6	Completed
JULY 2023						
July	Wednesday	50 Mins.	Unit 2: Biochemistry, Animal Physiology and Endocrinology	6.Reproductive cycles (menstrual cycle and estrous cycle) and their hormonal control.	3	Completed

Semester: 4th Semester (Honours) Theory

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
APRIL 2023						
April	Monday, Friday	50 Mins.	Unit 1: Microbiology, Parasitology and Immunology	1. General characters and major classification of microbe	4	Completed
MAY 2023						
May	Monday, Friday	50 Mins.	Unit 1: Microbiology, Parasitology and Immunology	2. A) Major cells, types and organs of immune system. B) Primary and secondary lymphoid organs.	4	Completed
JUNE 2023						
June	Tuesday	50 Mins.	Unit 1: Microbiology, Parasitology and Immunology	C) Types of immune systems. D) Cell mediated immune system and humoral immune system	3	Completed
JULY 2023						
July	Tuesday	50 Mins.	Unit 1: Microbiology, Parasitology and Immunology	E) Concept of antigen and types of antibodies.	4	Completed

Semester: 4th Semester (General) Theory

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
APRIL 2023						
April	Thursday	50 Mins.	Unit 2: Applied Zoology	Apiculture 1. RECOGNITION OF DIFFERENT SPECIES AND POLYMORPHS OF <i>Apis</i> SPECIES 2. DIFFERENT TECHNIQUES OF APICULTURE 3. DIFFERENT PRODUCTS AND BY PRODUCTS OF APICULTURE 4.	4	Completed
MAY 2023						
May	Thursday	50 Mins.	Unit 2: Applied Zoology	5. DIFFERENT DISEASES OF HONEY BEE 6. COMPOSITION AND MEDICINAL VALUES OF HONEY 7. DESCRIPTION OF BEE HIVE AND BEE DANCE	2	Completed

JUNE 2022						
June	Thursday	50 Mins.	Unit 2: Applied Zoology	sericulture	2	Completed
JULY 2022						
July	Thursday	50 Mins	Unit 2: Applied Zoology	sericulture	3	Completed

Semester: 6th Semester (Honours) Theory

Month	Day	Duration of Class	Topic Name	Lesson Name	Total No. of Periods/Classes Required	Status
APRIL 2023						
April	Monday, Thursday	50 Mins.	Endocrinology and Reproductive Biology	Histological structures and functions of major endocrine glands, disorders related to them,	4	Completed
MAY 2023						
May	Monday, Thursday	50 Mins.	Endocrinology and Reproductive Biology	Histological structures and functions of major endocrine glands, disorders related to them,	4	Completed
JUNE 2023						
June	Monday, Thursday	50 Mins.	Endocrinology and Reproductive Biology	Histological structures and functions of major endocrine glands, disorders related to them,	4	Completed
JULY 2023						
July	Monday, Thursday	50 Mins.	Endocrinology and Reproductive Biology	Invertebrate Hormones	2	Completed

TOPICS RELATED TO PRACTICAL CURRICULUM WERE TAKEN UP FOR SECOND SEMESTER (Major and General), SIXTH SEMESTER.

CLASSES FOR PRACTICAL CURRICULUM FOR FOURTH SEMESTER WERE TAKEN AS AND WHEN REQUIRED.

STUDY PLAN

ODD SEMESTER (SEPT 2022 – DEC 2022)

Dr. Subhalaxmi Bhattacharjee



Dept. OF ZOOLOGY

HOLY CROSS COLLEGE,

JUBATARA, WEST TRIPURA

CLASS PLAN (SEPT 2022 – DEC 2022)

<u>DAY</u>	<u>09.00am-09.50am</u>	<u>09.50am-10.40am</u>	<u>10.40am-11.30am</u>	<u>11.30am-12.20pm</u>	<u>RECESS</u>	<u>1.00pm-1.50pm</u>	<u>1.50pm-2.40pm</u>	<u>2.40pm-3.30pm</u>
MON	G3	-	G1	H3	-	-	-	-
TUE	-	H5	-	H1-MENT	-	-	G3 (prac) grpB	G3 (prac) grpB
WED	H3	-	H1	-	-	-	H3 (prac)A	H3 (prac)A
THRS	G3	-	-	H5-MENT	-	H1	-	-
FRI	G3	H5	-	H3-MENT	-	H1	G3 (prac) grpC	G3 (prac)grpC

FIRST SEMESTER MAJOR (H1)

<u>TOPIC</u>	<u>MONTH</u>	<u>PLAN OF STUDY</u>	<u>EXPECTED OUTCOME</u>	<u>BOOKS REFERRED</u>	<u>TOTAL NUMBER OF CLASSES REQUIRED</u>
ARTHROPODA	SEPTEMBER & OCTOBER	<ul style="list-style-type: none"> ● THEORY LECTURE ● SLIDESHOW ● SHORT QUIZ ● pdf NOTE SHARING 	<ol style="list-style-type: none"> 1. IDENTIFYING VARIOUS CHARACTERISTICS OF THE PHYLUM 2. DETAILED STUDY OF MORPHOLOGY OF <i>Periplaneta</i> 3. DETAILED STUDY OF DIGESTIVE SYSTEM OF <i>Periplaneta</i> 4. DETAILED STUDY OF RESPIRATORY SYSTEM OF <i>Periplaneta</i> 5. DETAILED STUDY OF CIRCULATORY SYSTEM OF <i>Periplaneta</i> 6. DETAILED STUDY OF REPRODUCTIVE SYSTEM OF <i>Periplaneta</i> 	<ul style="list-style-type: none"> ● INVERTEBRATE ZOOLOGY BY E.L. JORDON AND Dr. P.S.VERMA ● BIOLOGY OF ANIMALS VOL I BY SINHA, ADHIKARI, GANGULY, BADAL CHANDRA, BHARATI GOSWAMI 	4
MOLLUSCA	OCTOBER	<ul style="list-style-type: none"> ● THEORY LECTURE ● SLIDESHOW ● SHORT QUIZ ● pdf NOTE SHARING 	<ol style="list-style-type: none"> 1. IDENTIFYING VARIOUS CHARACTERISTICS OF THE PHYLUM 2. DETAILED STUDY OF MORPHOLOGY OF <i>Pila</i> 3. DETAILED STUDY OF DIGESTIVE SYSTEM OF <i>Pila</i> 4. DETAILED STUDY OF RESPIRATORY SYSTEM OF <i>Pila</i> 5. DETAILED STUDY OF NERVOUS SYSTEM OF <i>Pila</i> 6. DETAILED STUDY OF MANTLE CAVITY OF <i>Pila</i> 7. DETAILED STUDY OF TORSION IN MOLLUSCAN DEVELOPMENT 	<ul style="list-style-type: none"> ● INVERTEBRATE ZOOLOGY BY E.L. JORDON AND Dr. P.S.VERMA ● BIOLOGY OF ANIMALS VOL I BY SINHA, ADHIKARI, GANGULY, BADAL CHANDRA, BHARATI GOSWAMI 	4

ECHINODERM	NOVEMBER	<ul style="list-style-type: none"> ● THEORY LECTURE ● SLIDESHOW ● SHORT QUIZ ● pdf NOTE SHARING 	<ol style="list-style-type: none"> 1. IDENTIFYING VARIOUS CHARACTERISTICS OF THE PHYLUM 2. DETAILED STUDY OF MORPHOLOGY OF <i>Asterias</i> 3. DETAILED STUDY OF WATER VASCULAR SYSTEM OF <i>Asterias</i> 4. DETAILED STUDY OF LARVAE OF <i>Asterias</i> 5. DETAILED STUDY OF THEIR EVOLUTIONARY SIGNIFICANCE 	<ul style="list-style-type: none"> ● INVERTEBRATE ZOOLOGY BY E.L. JORDON AND Dr. P.S.VERMA ● BIOLOGY OF ANIMALS VOL I BY SINHA, ADHIKARI, GANGULY, BADAL CHANDRA, BHARATI GOSWAMI 	3
NOTOCHORD	NOVEMBER	<ul style="list-style-type: none"> ● THEORY LECTURE ● SLIDESHOW ● SHORT QUIZ ● pdf NOTE SHARING 	<ol style="list-style-type: none"> 1. ORIGIN 2. EMBRYOLOGICAL DEVELOPMENT 	<ul style="list-style-type: none"> ● BIOLOGY OF ANIMALS BY SINHA, ADHIKARI, GANGULY 	1
HEMICHORDATA	DECEMBER	<ul style="list-style-type: none"> ● THEORY LECTURE ● SLIDESHOW ● SHORT QUIZ ● pdf NOTE SHARING 	<ol style="list-style-type: none"> 1. DETAILED STUDY OF STRUCTURAL ORGANISATION OF <i>Balanoglossus</i> 2. DETAILED STUDY ON THEIR EVOLUTIONARY POSITION 	<ul style="list-style-type: none"> ● INVERTEBRATE ZOOLOGY BY E.L. JORDON AND Dr. P.S.VERMA ● BIOLOGY OF ANIMALS VOL I BY SINHA, ADHIKARI, GANGULY, BADAL CHANDRA, BHARATI GOSWAMI 	2
PROTOCHORDATA	DECEMBER - JANUARY	<ul style="list-style-type: none"> ● THEORY LECTURE ● SLIDESHOW ● SHORT QUIZ ● pdf NOTE SHARING 	<ol style="list-style-type: none"> 1. DETAILED STUDY ON LIFE HISTORY OF <i>Ascidia</i> 2. DETAILED STUDY ON EVOLUTIONARY SIGNIFICANCE OF <i>Ascidia</i> 3. DETAILED STUDY ON STRUCTURAL ORGANISATION 	<ul style="list-style-type: none"> ● INVERTEBRATE ZOOLOGY BY E.L. JORDON AND Dr. P.S.VERMA ● BIOLOGY OF 	2

			<p>OF <i>Branchiostoma</i></p> <p>4. DETAILED STUDY ON PHARYNGEAL STRUCTURE OF <i>Branchiostoma</i></p> <p>5. DETAILED STUDY ON CILLIARY MODE OF FEEDING OF <i>Branchiostoma</i></p> <p>6. DETAILED STUDY ON NEPHRIDIA AND ROLE IN EXCRETION</p>	<p>ANIMALS VOL I BY SINHA, ADHIKARI, GANGULY, BADAL CHANDRA, BHARATI GOSWAMI</p>	
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FIRST SEMESTER GENERAL (G1)

<u>TOPIC</u>	<u>MONTH</u>	<u>PLAN OF STUDY</u>	<u>EXPECTED OUTCOME</u>	<u>BOOKS REFERRED</u>	<u>TOTAL NUMBER OF CLASSES REQUIRED</u>
ANNELIDA	SEPTEMBER & OCTOBER	<ul style="list-style-type: none"> ● THEORY LECTURE ● SLIDESHOW ● SHORT QUIZ ● pdf NOTE SHARING 	<p>1. IDENTIFYING VARIOUS CHARACTERISTICS OF THE PHYLUM</p> <p>2. DETAILED STUDY OF MORPHOLOGY OF <i>Pheretima</i></p> <p>3. DETAILED STUDY OF DIGESTIVE SYSTEM OF <i>Pheretima</i></p> <p>4. DETAILED STUDY OF CIRCULATORY SYSTEM OF</p>	<ul style="list-style-type: none"> ● INVERTEBRATE ZOOLOGY BY E.L. JORDON AND Dr. P.S.VERMA ● BIOLOGY OF ANIMALS VOL I BY SINHA, ADHIKARI, 	3

			<i>Pheretima</i> 5. DETAILED STUDY OF EXCRETORY SYSTEM OF <i>Pheretima</i>	GANGULY, BADAL CHANDRA, BHARATI GOSWAMI	
ARTHROPODA	NOVEMBER & DECEMBER	<ul style="list-style-type: none"> ● THEORY LECTURE ● SLIDESHOW ● SHORT QUIZ ● pdf NOTE SHARING 	1.IDENTIFYING VARIOUS CHARACTERISTICS OF THE PHYLUM 2.DETAILED STUDY OF MORPHOLOGY OF <i>Periplaneta</i> 3.DETAILED STUDY OF RESPIRATORY SYSTEM OF <i>Periplaneta</i> 4. DETAILED STUDY OF CIRCULATORY SYSTEM OF <i>Periplaneta</i>	<ul style="list-style-type: none"> ● INVERTEBRATE ZOOLOGY BY E.L. JORDON AND Dr. P.S.VERMA ● BIOLOGY OF ANIMALS VOL I BY SINHA, ADHIKARI, GANGULY, 	3
MOLLUSCA	JANUARY	<ul style="list-style-type: none"> ● THEORY LECTURE ● SLIDESHOW ● SHORT QUIZ ● pdf NOTE SHARING 	1.IDENTIFYING VARIOUS CHARACTERISTICS OF THE PHYLUM 2. DETAILED STUDY OF MORPHOLOGY OF <i>Pila</i> 3. DETAILED STUDY OF RESPIRATORY SYSTEM OF <i>Pila</i> 4. DETAILED STUDY OF NERVOUS SYSTEM OF <i>Pila</i>	<ul style="list-style-type: none"> ● INVERTEBRATE ZOOLOGY BY E.L. JORDON AND Dr. P.S.VERMA ● BIOLOGY OF ANIMALS VOL I BY SINHA, ADHIKARI, I 	2
INVERTEBRATE PLAN OF NERVOUS SYSTEM	JANUARY	<ul style="list-style-type: none"> ● THEORY LECTURE ● SLIDESHOW ● SHORT QUIZ ● pdf NOTE SHARING 	1. ORIGIN OF NERVOUS SYSTEM DISCUSSION ABOUT NERVOUS SYSTEM PLAN IN DIFFERENT INVERTEBRATE PHYLA		1

THIRD SEMESTER MAJOR (H3)

<u>TOPIC</u>	<u>MONTH</u>	<u>PLAN OF STUDY</u>	<u>EXPECTED OUTCOME</u>	<u>BOOKS REFERRED</u>	<u>TOTAL NUMBER OF CLASSES REQUIRED</u>
COMMUNITY SUCCESSION	SEPTEMBER & OCTOBER	<ul style="list-style-type: none"> ● THEORY LECTURE ● SLIDESHOW ● SHORT QUIZ ● pdf NOTE SHARING 	1. DISCUSSION ABOUT DEFINITON OF COMMUNITY 2. DISCUSSION ABOUT DEFINITION OF COMMUNITY SUCCESSION 3. DISCUSSION ABOU TYPES OF SUCCESSION IN VARIOUS COMMUNITIES 4. DISCUSSION ABOUT	<ul style="list-style-type: none"> ● FUNDAMENTALS OF ECOLOGY BY M.C. DASH 	4

			ECOTONE AND EDGE EFFECT IN AN ECOSYSTEM		
BEHAVIORAL ECOLOGY	SEPTEMBER	<ul style="list-style-type: none"> ● THEORY LECTURE ● SLIDESHOW ● SHORT QUIZ ● pdf NOTE SHARING ● ASSIGNMENTS 	DISCUSSION REGARDING MIGRATION IN THE ANIMAL KINGDOM WITH SPECIAL EMPHASIS ON BIRD MIGRATION	ZOOLOGY FOR DEGREE STUDENTS BY V K AGARWAL	3
ENVIRONMENTAL POLLUTION	NOVEMBER & DECEMBER	<ul style="list-style-type: none"> ● THEORY LECTURE ● SLIDESHOW ● SHORT QUIZ ● pdf NOTE SHARING ● ASSIGNMENTS 	DISCUSSION REGARDING DIFFERENT TYPES OF POLLUTION AND THEIR EFFECTS ON THE ENVIRONMENT	ZOOLOGY FOR DEGREE STUDENTS BY V K AGARWAL	4
CONSERVATION OF THREATENED WILD LIFE	JANUARY	<ul style="list-style-type: none"> ● THEORY LECTURE ● SLIDESHOW ● SHORT QUIZ ● pdf NOTE SHARING ● ASSIGNMENTS 	DISCUSSION REGARDING THE VARIOUS NATIONAL AND INTERNATIONAL INITIATIVES FOR BIODIVERSITY PROTECTION	ZOOLOGY FOR DEGREE STUDENTS BY V K AGARWAL	4-6

THIRD SEMESTER GENERAL (G3)

<u>TOPIC</u>	<u>MONTH</u>	<u>PLAN OF STUDY</u>	<u>EXPECTED OUTCOME</u>	<u>BOOKS REFERRED</u>	<u>TOTAL NUMBER OF CLASSES REQUIRED</u>
ECOSYSTEM AND DIFFERENT CHARACTERS	SEPTEMBER	<ul style="list-style-type: none"> ● THEORY LECTURE ● SLIDESHOW ● SHORT QUIZ ● pdf NOTE SHARING 	5. DISCUSSION ABOUT DEFINITION OF ECOSYSTEM 6. DISCUSSION ABOUT VARIOUS COMPONENTS OF ECOSYSTEM	<ul style="list-style-type: none"> ● FUNDAMENTALS OF ECOLOGY BY M.C. DASH 	3

COMMUNITY ECOLOGY & COMMUNITY SUCCESSION	SEPTEMBER & OCTOBER	<ul style="list-style-type: none"> ● THEORY LECTURE ● SLIDESHOW ● SHORT QUIZ ● pdf NOTE SHARING ● ASSIGNMENTS 	<p>1. DISCUSSION ABOUT DEFINITION OF COMMUNITY</p> <p>2. 2. DISCUSSION ON VARIOUS COMPONENTS OF COMMUNITY</p> <p>3. DISCUSSION ABOUT DEFINITION OF COMMUNITY SUCCESSION</p> <p>7. DISCUSSION ABOUT TYPES AND CAUSES OF SUCCESSION IN VARIOUS COMMUNITIES</p>	ZOOLOGY FOR DEGREE STUDENTS BY V K AGARWAL	10
INTERACTION AMONG DIFFERENT SOCIAL INSECTS	NOVEMBER	<ul style="list-style-type: none"> ● THEORY LECTURE ● SLIDESHOW ● SHORT QUIZ ● pdf NOTE SHARING ● ASSIGNMENTS 	DISCUSSION REGARDING DIFFERENT TYPES OF SOCIAL INSECTS AND THEIR EFFECTS ON THE ENVIRONMENT.	ZOOLOGY FOR DEGREE STUDENTS BY V K AGARWAL	2
ANIMAL DISTRIBUTION AND THE EFFECT OF BARRIERS ON IT	NOVEMBER	<ul style="list-style-type: none"> ● THEORY LECTURE ● SLIDESHOW ● SHORT QUIZ ● pdf NOTE SHARING 	DISCUSSION ON ANIMAL DISTRIBUTION AND THE EFFECT OF BARRIERS ON IT	DIFFERENT BOOKS ON ECOLOGY AVAILABLE IN COLLEGE LIBRARY	2
ZOOGEOGRAPHIC REALMS	DECEMBER	<ul style="list-style-type: none"> ● THEORY LECTURE ● SLIDESHOW ● SHORT QUIZ ● pdf NOTE SHARING 	DISCUSSION ABOUT DIFFERENT REALMS AND THE VARIOUS ANIMAL SPECIES FOUND IN THEM	● ZOOLOGY FOR DEGREE STUDENTS BY V K AGARWA	1
BIODIVERSITY	DECEMBER AND JANUARY	<ul style="list-style-type: none"> ● THEORY LECTURE ● SLIDESHOW ● SHORT QUIZ ● pdf NOTE SHARING ● ASSIGNMENTS 	<p>1. CONCEPT OF BIODIVERSITY</p> <p>2. DIFFERENT STRATEGIES OF CONSERVATION</p> <p>3. <i>insitu</i> AND <i>exsitu</i> METHODS OF biodiversity</p>	DIFFERENT BOOKS ON ECOLOGY AVAILABLE IN COLLEGE LIBRARY	6

			CONSERVATION		
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FIFTH SEMESTER MAJOR (H5)

<u>TOPIC</u>	<u>MONTH</u>	<u>PLAN OF STUDY</u>	<u>EXPECTED OUTCOME</u>	<u>BOOKS REFERRED</u>	<u>TOTAL NUMBER OF CLASSES REQUIRED</u>
COLOURATION & MIMICRY	SEPTEMBER	<ul style="list-style-type: none"> ● THEORY LECTURE ● SLIDESHOW ● SHORT QUIZ ● pdf NOTE SHARING ● ASSIGNMENT 	1.DISCUSSION ABOUT DEFINITON LIGHT AND COLOUR 2.DISCUSSION ABOUT TYPES OF COLOURATION AND MIMICRY 3.DISCUSSION ABOUT DIFFERENT EXAMPLES	<ul style="list-style-type: none"> ● FUNDAMENTALS OF ECOLOGY BY M.C. DASH 	3
ADAPTATION	OCTOBER	<ul style="list-style-type: none"> ● THEORY LECTURE ● SLIDESHOW ● SHORT QUIZ ● pdf NOTE SHARING ● ASSIGNMENT 	1. DISCUSSION ON DEFINITION OF EVOLUTION 2. DISCUSSION ON DIFFERENT TYPES OF ADAPTATION 3. DISCUSSION ON VARIOUS ADAPTIVE FEATURES OF MANY SPECIMENS OF ANIMAL KINGDOM	<ul style="list-style-type: none"> ● ZOOLOGY FOR DEGREE STUDENTS BY V K AGARWAL 	4
CONTINENTAL DRIFT THEORY AND DISCONTINUOUS DISTRIBUTION OF ANIMALS	OCTOBER & NOVEMBER	<ul style="list-style-type: none"> ● THEORY LECTURE ● SLIDESHOW ● SHORT QUIZ ● pdf NOTE SHARING 	1. DISCUSSION ON THE ORIGIN OF CONTINENTAL DRIFT THEORY AND THE EFFECTS ON THE DISTRIBUTION OF ANIMALS	<ul style="list-style-type: none"> ● ZOOLOGY FOR DEGREE STUDENTS BY V K AGARWAL 	2
ZOOGEOGRAPHIC REALMS	DECEMBER	<ul style="list-style-type: none"> ● THEORY LECTURE ● SLIDESHOW ● SHORT QUIZ ● pdf NOTE SHARING 	DISCUSSION ABOUT DIFFERENT REALMS AND THE VARIOUS ANIMAL SPECIES FOUND IN THEM	<ul style="list-style-type: none"> ● ZOOLOGY FOR DEGREE STUDENTS BY V K AGARWA 	1

ETHOLOGY		<ul style="list-style-type: none"> ● THEORY LECTURE ● SLIDESHOW ● SHORT QUIZ ● pdf NOTE SHARING 	<p>1. DISCUSSION ON VARIOUS CLASSIFICATIONS OF BEHAVIOUR STUDY</p> <p>2. ELABORATION OF DIFFERENT EXAMPLES</p>		6
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**PRACTICAL CURRICULUM CARRIED OUT FOLLOWING
REGULAR SCHEDULE**

STUDY PLAN

TEACHER: -Dr.Tomina NS

PERIOD: - 1st April 2022 to 8th July & 5th September to 15th December

<p>1st Sem C4: language Across the Curriculum</p>	<p>1st Sem C5:Understanding Discipline and Subjects</p>	<p>2nd Sem C7a: Pedagogy of School Subject Part-1 English</p>	<p>2nd Sem C8a : Knowledge and Curriculum Part-1</p>	<p>3rd Sem C7b: pedagogy of school subject part-1i english</p>	<p>4th Semester C8b : knowledge and curriculum part-2</p>	<p>4th Semester C11: Educational Administration & Management</p>	<p>4th Sem EPC 4: Understanding The Self</p>
<p>Unit - 1 Understanding the language background of students Language: meaning, concepts & process of development</p>	<p>Unit - 2 •Language as a subject and discipline •Nature, history, method, understanding and place in the curriculum</p>	<p>Unit - 1 Foundation of Language teaching •Significance, meaning, nature & scope •Brief Historical background •Aims and objectives</p>	<p>Unit - 1 •Knowledge – meaning, Cnature, difference between knowledge and doing, thinking and feeling. •Difference between:</p>	<p>Unit - 1 Pedagogical Analysis Concepts and method of pedagogical Analysis Pedagogical knowledge of content from various classes VI to XII Selection of units and breaking of sub units</p>	<p>Unit - 1 Concept of democracy in school practices; interrelation between nationalism, internationalism & secularism and their</p>	<p>Unit - 1 Educational Administration- meaning purpose, objectives & scope: Functions of educational administration. Role & functions of Headmaster & teacher- qualities of</p>	<p>Unit - 2 Professional Identity of a teacher Identity of the self from gender, relational, cultural viewpoints Unit - 3</p>

<ul style="list-style-type: none"> • Function of language • Theory of language development- Chomsky, Bloomfield Unit - 2 •Language diversity in classroom •Bilingualism and Multi-lingualism – meaning, nature & characteristics •Understanding of multilingualism in the classroom 		<ul style="list-style-type: none"> •Innovation in language teaching Unit - 2 Strategies of language teaching •Different methods of teaching •Lecture method •Interactive method •Demonstration method •Heuristic method •Project method •CAI 	<p>Knowledge and skill;’ teaching and training;’ knowledge and information; reason and belief.</p> <p>Unit - 2</p> <ul style="list-style-type: none"> •Western thinkers of education- Plato, Dewey, Freire •Indian thinkers of education- Vivekananda, Tagore, Gandhi. Nature and processes of socialization- 	<p>Instructional objectives in behavioural terms</p> <p>Teaching learning strategies</p> <p>Use of Teaching Aids</p> <p>Blue print for criterion reference test items</p> <p>Unit - 2 Teaching Skills</p> <ul style="list-style-type: none"> • Micro Teaching and Micro lesson • Simulated Teaching • Integrated Teaching/ Teaching in class room situation <p>Unit - 3 Learning Design</p>	<p>implication</p>	<p>a Headmaster as educational administrator.</p> <p>Supervision- meaning, nature, scope & types of inspection: strategies to be taken for good inspection& supervision with reference to the schools in Tripura.</p> <p>Unit - 2 Educational Management- meaning, characteristics, need, scope & significance:</p>	<p>Self expression by exploring one’s dreams, aspirations, needs, concerns, life stories, poetry and humour, creative movement aesthetic representation etc</p>
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<p>•Home language & school language – their similarity & dissimilarity; 'standard' language vs. home 'dialects'.</p>		<p>method •Story telling.</p> <p>Unit - 3</p> <p>Learning Resources in Language Teaching</p> <p>•Importance of learning resource</p> <p>•Language text books •Teaching aids in language subjects</p> <p>•Language library</p> <p>•Language laboratory</p>	<p>(a)At home: family as a social institution; parenting style and their impact; transmission of parental expectations and values.</p> <p>(b)At community: neighbourhood, extended family, religious group and their socialization functions.</p> <p>(c) At school: impact of entry to school; school as</p>	<p>Concept, importance and types</p> <p>Steps of design</p> <p>Qualities of good learning design</p> <p>Unit - 4 Activities in Language</p> <p>Fair and exhibition</p> <p>Field trips/excursion</p> <p>Debate</p> <p>Wall and Annual magazine</p> <p>Subject club</p> <p>Unit - 5 Assessment of language Learning</p> <p>Concept of assessment and evaluation</p> <p>Achievement test</p> <p>Text book review</p>		<p>Educational Administration vs. Educational Management, components of constituents of Educational Maagement. Institutional Management-meaning, components: need & organizing co-curricular activities. Educational Planning- meaning, need, types, strategies & steps: Educational Finance- concept &</p>	
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		<ul style="list-style-type: none"> •Language teacher Unit - 4 Evaluation in Language teaching •Evaluation in programme •CCE (Continues & Comprehensive Evaluation) •Formative and summative evaluation •Diagnose and remediation •Achievement test-planning 	<p>a social institution; value formation in the context of schooling.</p> <p>(d) Understanding interface between home, community and school; inter-linkages within wider socio-cultural contexts.</p>			<p>scope: sources of income: educational expenditure: educational resources.</p>	
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DEPARTMENT OF TEACHER EDUCATION
HOLY CROSS COLLEGE, AGARTALA

STUDY PLAN

TEACHER: -Tapashi Saha

Ist Sem C1: Child and Growing up	1 st Sem C5: Understanding discipline and subjects	3 rd Sem C7b: pedagogy of school subject part-Ii english	3 rd Sem C7b: pedagogy of school subject part-Ii english
<p>Unit 3</p> <p>Childhood with diverse contexts-issues related to marginalization, childhood characteristics of children in slum areas, girl children in urban slum area, dalit children and exceptional children.</p> <p>Development characteristics of children from different socio- cultural & political background, problems of development faced by backward and minority children with special reference to Tripura.</p> <p>UNIT-5</p> <p>Experiences in childhood and adolescence- significance of gender, caste, role of parents and teachers in adolescence</p>	<p>UNIT-3</p> <p>Mathematics as a subject and discipline</p> <p>Nature, History, Method, Understanding, and Place in Curriculum</p>	<p>Unit - 1</p> <p>Pedagogical Analysis</p> <p>Concepts and method of pedagogical Analysis</p> <p>Pedagogical knowledge of content from various classes VI to XII</p> <p>Selection of units and breaking of sub units</p> <p>Instructional objectives in behavioural terms</p> <p>Teaching learning strategies</p> <p>Use of Teaching Aids</p>	<p>Unit - 1</p> <p>Pedagogical Analysis</p> <p>Concepts and method of pedagogical Analysis</p> <p>Pedagogical knowledge of content from various classes VI to XII</p> <p>Selection of units and breaking of sub units</p> <p>Instructional objectives in behavioural terms</p> <p>Teaching learning strategies</p> <p>Use of Teaching Aids</p>

Tapashi Saha
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<p>Individual differences:nature, causes, understanding,differences based on diversity of language,caste, gender, community, religion, etc</p>		<p>Blue print for criterion reference test items</p> <p>Unit - 2</p> <p>Teaching Skills</p> <ul style="list-style-type: none"> ● Micro Teaching and Micro lesson ● Simulated Teaching ● Integrated Teaching/ Teaching in class room situation <p>Unit - 3</p> <p>Learning Design</p> <p>Concept, importance and types</p> <p>Steps of design</p> <p>Qualities of good learning design</p>	<p>Blue print for criterion reference test items</p> <p>Unit - 2</p> <p>Teaching Skills</p> <ul style="list-style-type: none"> ● Micro Teaching and Micro lesson ● Simulated Teaching ● Integrated Teaching/ Teaching in class room situation <p>Unit - 3</p> <p>Learning Design</p> <p>Concept, importance and types</p> <p>Steps of design</p> <p>Qualities of good learning design</p>
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Jyoti Saha
6/9/22

		Unit - 4 Activities in Language Fair and exhibition Field trips/excursion Debate Wall and Annual magazine Subject club	Unit - 4 Activities in Language Fair and exhibition Field trips/excursion Debate Wall and Annual magazine Subject club
		Unit - 5 Assessment of language Learning Concept of assessment and evaluation Achievement test Text book review	Unit - 5 Assessment of language Learning Concept of assessment and evaluation Achievement test Text book review

Jyoti Saha
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Lesson plan-1

Class: B. Ed 1st Semester

Paper: C1, Child and growing up

Paper: C5, Understanding subjects

Course Content/Syllabus for Semester 1

Day	C1	Date	C5
1	Characteristic of childhood and adolescent period Child development skill	1	Maths as a subject and discipline, Nature, History
2	Physical development in school age children, Social Development	2	Methods of teaching
3	Marginalization, Marginalized groups, Actions of marginalization, Impact of marginalization	3	Understanding and place in curriculum of maths
4	Marginalization children, Slum and impact, Slum child and experience, Girl child of urban slum area, Education & Slum Child	4	Revision
5	Dalit and discrimination	5	Remedial Classes
6	Exceptional children, Disabled children	6	Solving question papers
7	Agents of Socialization, Socio Culture influence on Development, Problems of development in Tripura		
8	Understanding childhood & adolescence, Characteristics		
9	Significance of gender, caste, Role of parents, Role of teachers		
10	Individual differences Nature, causes,		
11	Understanding differences, Diversity		

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	of language, Caste, gender, Community, religion		
12	Revision		
13	Remedial Classes		
14	Solving question papers		

Mode of transaction: 1. Lectures, 2. Discussion, 3. Assignments, 4. Power point presentation. 5. Film related to topic.

Reference:

Aggarwal, J. C. (2008). *Essentials of Educational Psychology*. Noida: Vikash Publishing House.

Bhattacharyya, D. (2008). *Sociology*. Kolkata: Vijaya Publishing House.

Chattopadhyaya Dr. K. et al Understanding Discipline and subject : Aaheli Publishers

Chakravorty Dr. P.K. Understanding Discipline and subjects (Bengali) : Rita Publications.

Dhar, Dr. D. et al, Understanding Discipline and subjects (Bengali) ;Rita Prakashan

Mete, Dr. J. Child and growing up (Bengali): Rita Publication

Nag, S., & Nag, D. S. (2017). *Childhood and growing up*. Kolkata: Rita Publications.

Nagasurendran. (2017, October). *Marginalised children: Issues and concerns*. Retrieved from <http://surendranedu.wordpress.com>

Paul, Dr D : Child and growing up (Bengali): Rita Publication

Roy, R. (2007). *Ethno-Pedagogy*. Delhi: Shipra Publications.

Sameer, M. N. (2016). *Childhood and Growing up*. Delhi: Educational Publishers and Distributors.

Sengupta Dr. M- Understanding Discipline and subjects : Rita Publication

Taj, D. H. (2007). *An Introduction to Social Psychology*. Hyderabad, New Delhi: Neelkamal Publications Pvt. Ltd.

Williams, J. (2007). *Cultural and Social factors that affect development*. Retrieved from <https://makewealthhistory.org>

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Lesson plan-2

Class: B. Ed 3rd Semester

Paper: C7b, Pedagogy of School Subject

(Physical Science, Mathematics)

Course Content/Syllabus for Semester3

Day	C7b Phy. Sc.	Day	C7b Maths
1	Concept and method of Pedagogical Analysis	1	Concept and method of Pedagogical Analysis
2	Pedagogical knowledge of the content from classes VI to XII, Selecting of unit and breaking of sub-units	2	Pedagogical knowledge of the content from classes VI to XII, Selecting of unit and breaking of sub-units
3	Instructional objectives in behavioural terms	3	Instructional objectives in behavioural terms
4	Teaching learning strategies, Use of teaching aids	4	Teaching learning strategies, Use of teaching aids
5	Blue print for criterion referenced test items	5	Blue print for criterion referenced test items
6	Micro teaching and micro lesson, Simulated teaching, Integrated teaching	6	Micro teaching and micro lesson, Simulated teaching, Integrated teaching
7	Learning design- concept, importance,types,steps, qualities	7	Learning design- concept, importance,types,steps, qualities
8	Fair, exhibition,debate	8	Fair, exhibition,debate
9	Field trip, excursion,subject club, Wall and annual magazine	9	Field trip, excursion,subject club, Wall and annual magazine
10	Assessment and evaluation	10	Assessment and evaluation
11	Achievement test, textbook review	11	Achievement test, textbook review
12	Revision	12	Revision
13	Remedial Classes	13	Remedial Classes
14	Solving question papers	14	Solving question papers

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Mode of transaction: 1. Lectures, 2. Discussion, 3. Assignments, 4. Power point presentation. 5. Film related to topic 6. Practical work

Reference:

1. Pedagogy of Mathematics teaching- Dr. Madhumala Sengupta and others (Rita Publication)
2. Teaching of Mathematics-Dr. A.K. Kulshetra
3. Teaching of Physical Science- Dr. Radha Mohan

Japashi Saha
6/9/22

**DEPARTMENT OF TEACHER EDUCATION
HOLY CROSS COLLEGE, AGARTALA**

STUDY PLAN

TEACHER: -Tapashi Saha

2nd Semester

C7a	C7a	C9
<p>Unit - 1 Foundation of Physical Science teaching</p> <ul style="list-style-type: none"> •Significance, meaning, nature & scope •Brief Historical background •Aims and objectives •Innovation in science teaching <p>Unit - 2 Strategies of science teaching</p> <ul style="list-style-type: none"> •Different methods of teaching •Lecture method •Interactive method •Demonstration method •Heuristic method •Project method •CAI method and problem solving •Laboratory method <p>Unit - 3 Learning Resources in Science Teaching</p> <ul style="list-style-type: none"> •Importance of learning resource 	<p>Unit - 1 Foundation of Maths teaching</p> <ul style="list-style-type: none"> •Significance, meaning, nature & scope •Brief Historical background •Aims and objectives •Innovation in mathematics teaching <p>Unit - 2 Strategies of mathematics teaching</p> <ul style="list-style-type: none"> •Different methods of teaching •Lecture method •Interactive method •Demonstration method •Heuristic method •Project method •CAI method and problem solving method •Analytic-synthetic method <p>Inductive and deductive method</p> <p>Unit - 3 Learning Resources in Mathematics Teaching</p>	<p>Unit-3 Appropriate tools for assessment</p> <p>Visualizing appropriate assessment tools for specific context, content& students</p> <p>Kinds of tasks(Project ,assignment, ABL)</p> <p>Kinds of tests(Teacher made and standardized test) and their construction with reference to blue print.</p> <p>Construction of a test-procedure followed</p> <p>Criteria of a good evaluation tool.Observation and its application in learning situation</p> <p>Unit 4- Data Analysis, Feedback reporting</p> <p>Statistical approaches</p> <p>Frequency distribution</p> <p>Graphical representation</p> <p>Central tendency</p>

Tapashi Saha
1/3/23

<ul style="list-style-type: none"> •Science text books •Teaching aids in science •Science library •Science laboratory •Science teacher 	<p>Importance of learning resource</p> <ul style="list-style-type: none"> •Maths text books •Teaching aids in Maths •Maths library •Maths laboratory •Maths teacher 	<p>Measures of variability</p> <p>Normal distribution</p> <p>Correlation and its interpretation</p>
<p>Unit - 4 Evaluation in Science teaching</p> <ul style="list-style-type: none"> •Evaluation programme •CCE (Continues & Comprehensive Evaluation) •Formative and summative evaluation •Diagnose and remediation •Achievement test-planning 	<p>Unit - 4 Evaluation in Maths teaching</p> <ul style="list-style-type: none"> •Evaluation programme •CCE (Continuous & Comprehensive Evaluation) •Formative and summative evaluation •Diagnose and remediation •Achievement test-planning 	

Jafar Ali Baha
1/3/23

4th Semester

C6	C11E1	EPC4
<p>UNIT-4 Gender, culture and institution: Curriculum and gender question, gender and the hidden curriculum Teacher as agent of change Life skills & sexuality</p> <p>UNIT-5 Development of sexuality, including primary influences in the life's of children (such as gender, body image, role models) Understanding the importance of addressing sexual harassment in family, neighbourhood & other formal & informal institution Institutions redressing sexual harassment and abuse</p>	<p>Unit 1 Educational and Vocational Guidance-meaning, definition, needs & scope Objectives of Guidance: Needs for guidance at various levels of education Types of guidance- Career, personal, individual & group guidance, group guidance techniques- class talk, career talk, orientation talk, group discussion, career conference, career corner, bulletin board, role play Modes or types of guidance services- orientation, information, placement, follow up & research & evaluation.</p> <p>UNIT-2 Counselling- meaning, nature, scope and objectives: relationship between guidance and counselling skills & qualities of an effective counsellor. Counselling techniques- person oriented and group oriented, cognitive and behavioural interventions & systematic intervention strategies. Areas of Counselling- family, parent, adolescent, counselling of girls, counselling of backward community children, counselling of children with special needs.</p>	<p>Unit 1-Self Concept-meaning, importance, influencing self-concept, development of self-concept</p>

Jafashi Sabo
1/3/23

Lesson plan-1

Class: B. Ed 2nd Semester

Paper: C7a – Pedagogy of School subject-Phy. Science/ Maths

C9-Assessment for learning

Course Content/Syllabus for Semester 1

Day	C7a Physical Science/Maths	Day	C9
1	Significance of Ph. Science/Maths teaching	1	Assessment tools
2	Aims and objectives, innovation in teaching	2	Different tasks
3	Lecture, interactive method	3	Construction of tests
4	Demonstration, Heuristic method	4	Procedure
5	School Observation	5	Procedure
6	Project, lab method	6	Blue print
7	CAI , problem solving method	7	Criteria of a good evaluation tool, Observation
8	Importance of learning resource	8	Mean
9	Science textbook, science library	9	Media
10	Teaching aid in science	10	Mode
11	Science laboratory, science teacher	11	Normal distribution
12	Evaluation & CCE	12	Central tendency
13	Formative and summative evaluation	13	Graphical representation
14	Diagnose and remediation	14	Variability
15	Achievement test planning	15	Correlation
16	Revision	16	Revision
17	Remedial classes	17	Remedial classes
18	Solving question papers	18	Solving question papers

Jafashi Saha
1/3/23

Mode of transaction: 1. Lectures, 2. Discussion, 3. Assignments, 4. Power point presentation. 5. Film related to topic.

Reference:

1. Pedagogy of Mathematics teaching- Dr. Madhumala Sengupta and others (Rita Publication)
2. Teaching of Mathematics-Dr. A.K. Kulashetra
3. Teaching of Physical Science- Dr. Radha Mohan
4. Statistics in Psychology and Education- S.K. Mangal

Jafarali Saha
1/3/23

Lesson plan-2

Class: B. Ed 4th Semester

C6- Gender, School and Society

C11E1-Guidance and Counselling in Education

Course Content/Syllabus for Semester3

Day	C6	Day	C11E1
1	Gender, culture, institution	1	Guidance, Counselling, difference
2	Gender & Curriculum	2	Educational, Vocational Guidance
3	Hidden curriculum	3	Types of guidance
4	Teacher as agent of change	4	Modes of guidance
5	Life skills and sexuality	5	Counselling techniques
6	Primary influence, body image, role model	6	Family, parent counselling
7	Addressing sexual harassment	7	Adolescent counselling
8	Sexual harassment, institution	8	Counselling of girls
9	EPC	9	Counselling of backward children
10	EPC	10	Counselling of special needs children
11	EPC	11	Revision
12	Revision	12	Case studies
13	Remedial classes	13	Remedial classes
14	Solving question papers	14	Solving question papers

Mode of transaction: 1. Lectures, 2. Discussion, 3. Assignments, 4. Power point presentation. 5. Film related to topic 6. Practical work

Reference:

1. Guidance and Counselling- Y.K. Singh
2. Gender, School and Society-Dr. Jayanta Mete (Rita Publications)

Japashi Saha
1/9/23

DEPARTMENT OF TEACHER EDUCATION

HOLY CROSS COLLEGE, AGARTALA

TEACHER- DR. BISWARUPA DATTA

STUDY PLAN

[MARKS: THEORY-25, PRACTICUM- 25]

SECOND SEMESTER

EPC: 2 – DRAMA AND ARTS IN EDUCATION

PERIOD: 1ST JUNE 2022 – 31ST MAY 2023

UNIT - 1	UNIT - 2	UNIT - 3
<p>Meaning and concepts of Arts [Visual and performing] and its significance at secondary level of school education.</p> <p>Distinguish between visual and performing Arts.</p> <p>Difference between Education in arts and arts in education.</p>	<p>Identification of different performing art forms [dance, music, musical instruments, theatre, drama, puppetry etc.] and visual arts.</p> <p>Primary discussion and acquaintance with types</p>	<p>Indian festivals and their artistic significance with special reference to Tripura [with illustrations].</p> <p>Engagement with field/practicum: Any one of the following-</p> <ul style="list-style-type: none">➤ Experimentation with different materials of visual arts such as pastel, poster, pen, and ink, rangoli materials, clay etc.➤ proportion and experimentation with different methods of visual arts like painting, collage, clay, drawing paper, cutting, and folding etc.➤ Listening/viewing and exploring regional art forms of music, dance, and drama. participation and performance in any one of the regional art forms keeping in mind the integrated approach. Planning a stage-setting for a performance/presentation by the student teachers.➤ Project work and workshop: Theme based projects from any of the curricular areas covering its social, economic, cultural, and scientific aspects integrating various art forms.

Study Plan - 1

Class:- B.Ed 4th semester

Paper:- EPC: 4 Understanding the self

Learning objectives:

The students - teachers will be able to:

- I. Know about the self concept and development of self concept.
- II. Gain a deeper knowledge and understanding about professional identity of teacher.

Course content/ syllabus for presentation

Date: 10-03-2023 to 26-05-2023

Sl. No	Understanding the self	Assessment
1	Self concept I. Meaning II. Importance	Assignment
2	Discussion on I. Professional identity of a teacher II. Identity of gender III. With cultural viewpoints	Group discussion
3	Self expression's I. Dreams II. Aspirations III. Needs	Individual Presentation
4	Yoga	Practical

Mode of Teaching, Lectures, Discussion, Assignments.

Dipriti Tripura
Teacher: Dipriti Tripura

Study Plan - 2

Class:- B.Ed 4th semester

Paper:- C:6 Gender, School and Society

Learning objectives:

The students - teachers will be able to:

- I. Know about the Historical backdrop of 19th centuries.
- II. Get deeper understanding of Women's education.
- III. Grab knowledge about recommendations.
- IV. Gain deeper understanding of Genders.

Course content/ syllabus for presentation

Date: 10-03-2023 to 26-05-2023

Sl. No	Gender, School and Society	Assessment
1	Social reforms movements of 19th century I. Women's education II. Social reformers ❖ Raja Ram Mohan Roy ❖ Jyotiba Phule	Presentation
2	Contemporary period I. Recommendations II. Schemes III. Implication, Plans	Group discussion
3	Gender identities I. family II. Schools III. Schooling of girls	Assignment

Mode of Teaching, Presentation, Group discussion, Assignments.

Dipriti Tripura
Teacher: Dipriti Tripura

Study Plan - 3

Class:- B.Ed 2nd semester
Paper:- C:3 Learning and Teaching

Learning objectives:

The students - teachers will be able to:

- I. Understanding about learning in school.
- II. Understanding about learning inside and outside school.
- III. Know about diverse classroom.

Course content/ syllabus for presentation

Date: 10-03-2023 to 26-05-2023

Sl. No	Learning and Teaching	Assessment
1	Learning inside and outside school I. Nature II. Barriers faced by learners III. Role of Teacher in teaching	Assignment
2	Analyzing teaching in diverse classroom I. Diverse classroom II. Relation between learners and teachers	Project
3	Teaching as profession I. Meaning II. Characteristics	Presentation

Mode of Teaching, Assignment, Project, Presentation

Dipriti Tripura.
Teacher: Dipriti Tripura

Study Plan - 4

Class:- B.Ed 2nd semester

Paper:- C7a: Pedagogy of School Subject

Learning objectives:

The students - teachers will be able to:

- I. Know about the meaning, nature and scope of history.
- II. Grab knowledge of different teaching method of history.
- III. Know important resources of history teaching.
- IV. Grab knowledge about evaluation in history teaching.

Course content/ syllabus for presentation

Date: 10-03-2023 to 26-05-2023

Sl. No	Pedagogy of School Subject	Assessment
1	Historical background I. Aims and objectives of history II. Innovation in teaching history	Project
2	Methods of teaching history I. Lecture II. Interactive III. Demonstration IV. Project etc	Assignment
3	Importance of resources I. Teaching aids II. Library III. Text Books	Preparing TLM
4	Program of Evaluation I. CCE II. Achivement test III. Formative and summative IV. Diagnose and remediation	Presentation

Mode of Teaching, Project, Assignment, Preparing TL, Presentation.

Dipriti Tripura
Teacher: Dipriti Tripura

Lesson Plan - 1

B.Ed 1st Semester

Subject: Learning and Teaching

Paper: C3

Sl. No	Date	Content	Method	Teaching material / aids
1	10-03-2023	Concept nature of learning inside and outside school	Lecture	PPT
2	13-03-2023	Barrier faced by the learners in school	Lecture	PPT
3	14-03-2023	Role of a teacher in developing learning	Lecture	PPT
4	15-03-2023	Concept of diverse classroom	Discussion	PPT
5	16-03-2023	Developing values among the learners	Lecture	PPT
6	20-03-2023	Concept of teaching as a profession and meaning	Lecture	PPT
7	21-03-2023	Characteristic of professionals lecture qualities of a teacher	Lecture	PPT

Activities: Assignment, Group Discussion

Dipriti Tripura
Teacher: Dipriti Tripura

Lesson Plan - 2

B.Ed 2nd Semester

Subject: Pedagogy of School Subject

Paper: C7a

Sl. No	Date	Content	Method	Teaching aids
1	21-03-2023	Concept nature and scope of history	Lecture	PPT
2	22-03-2023	Historical background and objectives	Lecture	ppt and showing model
3	23-03-2023	Innovative way of teaching history	Lecture	ppt and showing model
4	24-03-2023	Different methods of teaching history	Lecture	ppt and showing model
5	2 5-03-2023	Importance of learning resource in history	Lecture, Discussion	ppt and showing model
6	27-03-2023	Different evaluation program	Lecture	PPT and showing model

Activities: Assignment, Presentation.

Dipriti Tripura
Teacher: Dipriti Tripura

Lesson Plan - 3

B.Ed 4th Semester

Subject: Understanding the self

Paper: EPC 4

Sl. No	Date	Content	Method	Teaching aids
1	10-04-2023	Concept, meaning and importance of self	Lecture	PPT
2	11-04-2023	Identity of self from Gender, Relational and Cultural viewpoint	Lecture	PPT
3	12-04-2023	Expressing of self exploring of one's dream's, needs	Lecture	PPT and Blackboard
4	17-04-2023	Representation of aesthetic creative movement	Lecture	PPT

Activities: Project, Presentation, Group Discuss and Debate.

Dipriti Tripura.
Teacher: Dipriti Tripura

Lesson Plan - 4

B.Ed 4th Semester

Subject: Gender, School and Society

Paper: C6

Sl. No	Date	Content	Method	Teaching aids
1	29-03-2023	Historical background on social reform movements of 19th century	Lecture and discussion	PPT
2	31-03-2023	Women's Education (Merit and Demerit)	Lecture	PPT
3	03-04-2023	Recommendation of contemporary period	Lecture	PPT
4	04-04-2023	Concept of Gender identities and socialization practices	Lecture	PPT
5	05-04-2023	Socialization practice in family, schools, formal and informal organization, schooling of girls	Lecture	PPT

Activities: Assignment, Individual Presentation.

Dipriti Tripura,
Teacher: Dipriti Tripura