LESSON PLAN (2023) JUL-DEC					
	1st Semester Hons.				
FNT-A-	BASIC FOOD SCI	ENCE	4		
CC-1-1-			CREDITS		
Th:					
SI no	Chapters	Teacher's name	Hours		
1.	Basic concept on Food, Nutrition and	Dr Anindita Ray	2		
	Nutrients. Classification of Food,	(Chakravarti)			
	Classification of Nutrients.				
2.	Carbohydrates - Definition,	Dr Sangita Manna	6		
	Classification. Structure and				
	properties.				
	Monosaccharides-glucose, fructose,				
	galactose.				
	Disaccharides - Maltose, lactose,				
	sucrose				
	Polysaccharides - Dextrin, starch,				
	glycogen, resistant starch.				
	Carbohydrates - Sources, daily				
	requirements, functions. Effects of too				
	high and too				
	Low carbohydrates on health.				
	Digestion and absorption of				

	carbohydrate.		
3.	Lipids -Definition, Classification &	Dr Suryatapa Das	6
	Properties. Fatty acids-composition,		
	properties, types. Lipids sources, daily		
	requirements, functions. Digestion &		
	Absorption of nutrients. Role &		
	nutritional significances of PUFA,		
	MUFA, SFA, W-3 fatty acid.		
4.	Proteins Definition, Classification,	Sajida Khatoon	6
	Structure & properties. Amino acids-		
	EK Classification, types, functions.		
	Proteins Sources, daily Effect of too		
	high too low proteins on health.		
	(Digestion requirements, functions,		
	absorption. Assessment of Protein		
	quality (BV, PER, NPU). Factors		
	affecting protein bio-availability		
	including anti-nutritional factors.		
FNT-A-	FOOD SCIENCE		2
CC-1-1-	(PRACTICAL)		CREDITS
P:			
1.	Identification of Mono, Di and	Sejuti Ray	2+2+2
	polysaccharides		
2.	Identification of Proteins	Dr Tanima Paul	2
3.	Identification of glycerol.	Dr Tanima Paul	2
FNT-A-	HUMAN PHYSIOLOGY-I		4
CC-1-2-			CREDITS
Th:			
1.	Unit of Life: Structure and functions	Aritri Nandy	4

			
	of cell with special reference to		
	Plasma membrane (Fluid Mosaic		
	Model), Mitochondria, Ribosome,		
	Endoplasmic reticulum. Nucleus		
	(nuclear membrane, nuclear chromatin		
	and nucleolus) Nucleotide,		
	Homeostasis, Positive and negative		
	feedback.		
2.	Circulatory and Cardiovascular	Aritri Nandy	4
	system: Blood and its composition,		
	formed elements, Blood groups,		
	Mechanism of blood coagulation,		
	Introduction to immune system,		
	Erythropoiesis and anaemia, Structure		
	and functions of heart, Cardiac cycle,		
	cardiac output, blood pressure and its		
	regulation.		
3.	Digestive System: Structure and	B.M.	4
	functions of G.I. tract, Process of		
	digestion and absorption of food,		
	Structure and functions of liver,		
	gallbladder and pancreas.		
4.	Respiratory System: Structure of	B.M.	4
	Lungs and gaseous exchange (oxygen		
	and carbon dioxide transport).		
5.	Musculoskeletal System: Formation	B.M.	4
	and functions of muscles, bones		
	Mechinism of muscle contraction,		
	isometric and isotonic muscle		
	contraction.		

FNT-A-	HUMAN PHYSIOLOGY-				2
CC-1-2-	I(PRACTICAL)				CREDITS
P:					
1.	Determination of pulse rate in Resting	Aritri	Nandy	&	2
	condition and after exercise (30	B.M.			
	beats/10 beats method)				
2.	Determination of blood pressure by	Aritri	Nandy	&	2
	Sphygmomanometer (Auscultatory	B.M.			
	method).				
3.	Measurement of Peak Expiratory flow	Aritri	Nandy	&	2
	rate.	B.M.			
4.	Determination of Bleeding Time (BT)	Aritri	Nandy	&	2
	and Clotting Time (CT).	B.M.			
5.	Detection of Blood group (Slide	Aritri	Nandy	&	2
	method).	B.M.			
6.	Measurement of Haemoglobin level	Aritri	Nandy	&	2
	(Sahli's or Drabkinmethod).	B.M.			

LESSON PLAN 2023 (JAN-JUNE)

2nd Semester Hons.

FNT-A-	BASIC FOOD SCIEN	CE - II	4 credits
CC-2-3-			
Th:			
SL No	Chapters	Teacher's	
		Name	Hours
1.	Dietary Fibre- Classification, sources,	Dr Sangita	2
	compositions, properties and nutritional	Manna	
	significance.		
2.	Minerals and Trace Elements Bio		3+3
	Chemical and Physiological Role, Bio		
	availability & requirements, sources,		
	deficiency and excess:		
	Calcium, Sodium, Potassium,	Dr Sangita	
	Phosphorus, Iron	Manna	
	Fluoride, Zinc, Selenium, Iodine,	Dr	
	Chlorine	Suryatapa	
		Das	
3.	Vitamins- Biochemical and	Sajida	6
	Physiological Role, Bio Availability and	Khatoon	
	Requirements, Sources, Deficiency and		
	Excess		
4.	Water- Functions, Daily Requirements,	Dr	2
	Water Balance	Anindita	
		Ray	
		Chakravarti	
FNT-A-CC-	BASIC FOOD SCIENCE	-II 2 cree	dits
2-3-P:			
1.	Determination of Ash content in food	Dr Ank	hi 5hours X
		Halder	7

2.	Determination of Moisture content in food		5hours X7
3.	Determination of Calcium, Iron and		3+3+3
	Vitamin C content in foods.		
FNT-A-CC-	HUMAN PHYSIOLOGY - II		4 credits
2-4-TH:			
1.	Excretory system: Structure and function	Aritri Nandy	3
	of skin, regulation of temperature of body,		
	Structure and functions of kidney in		
	special reference of nephron, Physiology		
	of urine formation.		
2.	Reproductive system: Structure and	Aritri Nandy	3
	functions of gonads, concept of menstrual		
	cycle, Brief idea of pregnancy, parturition,		
	lactation, menopause. Brief concept on		
	spermatogenesis and Oogenesis process.		
3.	Nervous system: Concept on sympathetic	BM	3
	and parasympathetic nervous system.		
	Brief anatomy and functions of cerebrum,		
	cerebellum, hypothalamus and neuron.		
	Concept on synapse and synaptic		
	transmission, Reflexes, Special senses.		
4.	Endocrine system: Structure and functions	BM	3
	of pituitary, thyroid, parathyroid and		
	adrenal gland, Structure and functions of		
	pancreas.		
FNT-A-CC-	HUMAN PHYSIOLOGY-II (PRA	CTICAL)	2
2-4-P:			credits
1.	Harvard Step test	Aritri Nandy	3
2.	Identification with reasons of histological	Aritri Nandy	4
	sites (Lung, Liver, Kidney, Small		

	intestine, Stomach, Thyroid, Adrenal,		
	Pancreas, Testis, Ovary and Muscle of		
	Mammals.		
3.	Qualitative determination of glucose, acetone in urine.	BM	4
4.	Blood film staining and identification of different types of blood cells.	BM	4

LESSON PLAN 2023 (JUL-DEC)				
	3rd Semester Ho	ons.		
FNT-A-CC-	HUMAN NUTRIT	TION-I	4	
3-5-Th:			CREDITS	
Sl No.	Chapters	Teacher's name		
1.	Concept and definition of terms- Nutrition, Malnutrition and Health: Scope of Nutrition.	Dr Suryatapa Das	2	

2.	Minimum Nutritional	Dr Suryatapa Das	3
	Requirement and RDA:		
	formulation of RDA and Dietary		
	Guidelines Reference Man and		
	Reference Woman, Adult		
	consumption unit.		
3.	Energy in Human Nutrition: Idea	Dr Sangita Manna	4
	of Energy and its unit, Energy		
	Balance, Assessment of Energy		
	Requirements deficiency and		
	excess, Determination of Energy		
	in food, B.M.R. and its regulation,		
	S.D.A.		
4.	Growth & Development from	Dr Anindita Ray	6
	infancy to adulthood: Somatic,	Chakravarti	
	physical, brain and mental		
	development, puberty, menarch,		
	pre-pubertal and pubertal changes,		
	Factors affecting growth and		
	development. Importance of		
	Nutrition for ensuring adequate		
	development.		
5.	Growth monitoring and	Sajida Khatoon	3
	promotion: Use of growth charts		
	and standards, Prevention of		
	growth faltering.		
FNT-A-CC-	HUMAN NUTRITION-I		2
3-5-P:	(PRACTICAL)		CREDITS
1.	Process involved in cooking:	Dr Sangita Manna	3
	pressure cooking, microwave,		

	steaming, grilling deep fat frying.		
2.	General concepts of weights and		3
	measures. Eye estimation of raw		
	and cooked foods		
3.	Preparation of food from different		3
	food groups and their significance		
	in relation to health.		
4.	Preparation of supplementary		3
	food for different age groups and		
	their nutritional significance.		
5.	Planning and preparation of low		3
	cost diet for Grade 1 and Grade Il		
	malnourished child		
FNT-A-CC-	COMMUNITY		4
3-6-Th:	NUTRITION		CREDITS
1.	Concept of Community, types of	Dr Suryatapa Das	2
1.	Concept of Community, types of Community, Factors affecting	Dr Suryatapa Das	2
1.		Dr Suryatapa Das	2
1. 2.	Community, Factors affecting	Dr Suryatapa Das Dr Suryatapa Das	2
	Community, Factors affecting health of the Community.		
	Community, Factors affecting health of the Community. Nutritional Assessment and		
	Community,Factorsaffectinghealth of the Community.NutritionalAssessmentandSurveillance:Meaning,need,		
2.	Community, Factors affecting health of the Community. Nutritional Assessment and Surveillance: Meaning, need, objectives and importance	Dr Suryatapa Das Dr Anindita Ray	2
2.	Community, Factors affecting health of the Community. Nutritional Assessment and Surveillance: Meaning, need, objectives and importance Nutritional assessment of human:	Dr Suryatapa Das Dr Anindita Ray	2
2.	Community, Factors affecting health of the Community. Nutritional Assessment and Surveillance: Meaning, need, objectives and importance Nutritional assessment of human: Clinical findings, nutritional	Dr Suryatapa Das Dr Anindita Ray	2
2.	Community, Factors affecting health of the Community. Nutritional Assessment and Surveillance: Meaning, need, objectives and importance Nutritional assessment of human: Clinical findings, nutritional anthropometry, biochemical tests,	Dr Suryatapa Das Dr Anindita Ray	2
2.	Community, Factors affecting health of the Community. Nutritional Assessment and Surveillance: Meaning, need, objectives and importance Nutritional assessment of human: Clinical findings, nutritional anthropometry, biochemical tests, biophysical methods.	Dr Suryatapa Das Dr Anindita Ray Chakravarti Dr Anindita Ray	2 3
2.	Community, Factors affecting health of the Community. Nutritional Assessment and Surveillance: Meaning, need, objectives and importance Nutritional assessment of human: Clinical findings, nutritional anthropometry, biochemical tests, biophysical methods. Diet survey: Need and	Dr Suryatapa Das Dr Anindita Ray Chakravarti Dr Anindita Ray Chakravarti	2 3
2.	Community, Factors affecting health of the Community. Nutritional Assessment and Surveillance: Meaning, need, objectives and importance Nutritional assessment of human: Clinical findings, nutritional anthropometry, biochemical tests, biophysical methods. Diet survey: Need and importance, methods of dietary	Dr Suryatapa Das Dr Anindita Ray Chakravarti Dr Anindita Ray Chakravarti	2 3

	family, adequacy of diet in respect		
	to RDA, concept of family food		
	security.		
5.	Clinical Signs: Need &	Dr Anindita Ray	3
	Importance's, identifying signs of	-	
	PEM, vitamin A deficiency and		
	iodine deficiency, Interpretation		
	of descriptive list of clinical signs.		
6.	Nutritional anthropometry Need	Dr Anindita Ray	3
	and importance, standard for		
	reference, techniques of		
	measuring height, weight, head,		
	chest and arm circumference,		
	interpretation of these		
	measurements. Use of growth		
	chart.		
7.	International, national, regional	Dr Sangita Manna	3
,,,	agencies and organisationis.	Di Sangita Manita	5
	Nutritional intervention		
	programmes to combat		
	malnutrition.		
FNT-A-CC-	COMMUNITY		2 Credits
			2 Credits
3-6-P:	NUTRITION		
	(PRACTICAL)		
1.	Anthropometric Measurement of	Dr Anindita Ray	3
	infant-Length, weight,	Chakravarti	
	circumference of chest, mid-upper		
	arm circumference, precautions to		
	be taken.		
2.	Comparison with norms and		3

interpretation of the nutritional assessment data and its significance. Weight for age, height for age, height for age, weight for height, body Mass Index (BMI) Waist-Hip Ratio (WHR). Skin fold thickness, 2 3. Growth charts-plotting of growth charts, growth monitoring and promotion. 2 4. Clinical assessment and signs of nutrient deficiencies specially PEM (Kwashiorkor, marasmus) I vitamin A deficiencies. Anaemia, Rickets, B-Complex deficiencies. 3 5. Estimation of food and nutrient intake: Household food consumption data, adult consumption unit, 24 hours dictary recall 24 hours record, Weighment method, food diaries, food frequency data, use of each of the above, information available through, each individual, collection of data, estimation of intakes. 3 FNT-A-CC- FOOD COMMODITIES 4 1. Cereals and Millets: Structure, processing, storage, use in various Sajida Khatoon 4		interpretation of the nutritional		
significance. Weight for age, height for age, weight for height, body Mass Index (BMI) Waist- Hip Ratio (WHR). Skin fold thickness,23.Growth charts-plotting of growth charts, growth monitoring and promotion.24.Clinical assessment and signs of nutrient deficiencies specially PEM (Kwashiorkor, marasmus) I vitamin A deficiencies.35.Estimation of food and nutrient intake: Household food consumption data, adult consumption unit, 24 hours dietary recall 24 hours record, Weighment method, food diaries, food frequency data, use of each of the above, information available through, each individual, collection of data, estimation of intakes.3FNT-A-CC- 3-7-Th:FOOD COMMODITIES41.Cereals and Millets: Structure, Sajida Khatoon4		interpretation of the nutritional		
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promotion.Promotion.4.Clinical assessment and signs of nutrient deficiencies specially PEM (Kwashiorkor, marasmus) I vitamin A deficiencies, Anaemia, Rickets, B-Complex deficiencies.35.Estimation of food and nutrient intake: Household food consumption data, adult consumption unit, 24 hours dietary recall 24 hours record, Weighment method, food diaries, food frequency data, use of each of the above, information available through, each individual, collection of data, estimation of intakes.3FNT-A-CC-FOOD COMMODITIES437-Th:Ccreals and Millets: Structure, Sajida Khatoon4	3.	Growth charts-plotting of growth		2
4.Clinical assessment and signs of nutrient deficiencies specially PEM (Kwashiorkor, marasmus) I vitamin A deficiencies, Anaemia, Rickets, B-Complex deficiencies.35.Estimation of food and nutrient intake: Household food consumption data, adult consumption unit, 24 hours dietary recall 24 hours record, Weighment method, food diaries, food frequency data, use of each of the above, information available through, each individual, collection of data, estimation of intakes.3FNT-A-CC- 3-7-Th:FOOD COMMODITIES Cereals and Millets: Structure, Sijida Khatoon4		charts, growth monitoring and		
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vitamin A deficiencies, Anaemia, Rickets, B-Complex deficiencies.35.Estimation of food and nutrient intake: Household food consumption data, adult consumption unit, 24 hours dietary recall 24 hours record, Weighment method, food diaries, food frequency data, use of each of the above, information available through, each individual, collection of data, estimation of intakes.3FNT-A-CC- 3-7-Th:FOOD COMMODITIES41.Cereals and Millets: Structure, Sajida Khatoon4		nutrient deficiencies specially		
Rickets, B-Complex deficiencies.35.Estimation of food and nutrient intake: Household food consumption data, adult consumption unit, 24 hours dietary recall 24 hours record, Weighment method, food diaries, food frequency data, use of each of the above, information available through, each individual, collection of data, estimation of intakes.3FNT-A-CC- 3-7-Th:FOOD COMMODITIES CREDITS41.Cereals and Millets: Structure, Sajida Khatoon4		PEM (Kwashiorkor, marasmus) I		
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FNT-A-CC- 3-7-Th:FOOD COMMODITIES ACCE4 CREDITS1.Cereals and Millets: Structure, Sajida KhatoonSajida Khatoon4		dietary recall 24 hours record,		
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available through, each individual, collection of data, estimation of intakes.Image: Collection of data, estimation of intakes.FNT-A-CC- 3-7-Th:FOOD COMMODITIES CREDITS41.Cereals and Millets: Structure, Sajida Khatoon4		food frequency data, use of each		
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3-7-Th:CREDITS1.Cereals and Millets: Structure, Sajida Khatoon4		intakes.		
1. Cereals and Millets: Structure, Sajida Khatoon 4	FNT-A-CC-	FOOD COMMODITIES		4
	3-7-Th:			CREDITS
processing, storage, use in various	1.	Cereals and Millets: Structure,	Sajida Khatoon	4
		processing, storage, use in various		

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	preparation, variety, selection and		
	cost. Cereal products, breakfast		
	cereals, fast food.		
2.	Pulses and Legumes Structures,	Dr Suryatapa Das	4
	Selection and variety. Storage,		
	Processing and use in different		
	preparations, Nutritional aspects		
	and cost.		
3.	3. Milk and Milk products	Sajida Khatoon	4
	Composition, Classification,		
	Selection Quality and Cost,		
	Processing, Storage and uses in		
	different preparations, Nutritional		
	aspects, shelf life and spoilage.		
4.	Eggs: Production, grade, quality	Dr Suryatapa Das	4
	selection, storage and spoilage,		
	cost nutritional aspects and use in		
	different preparations.		
5.	Meat, Fish and Poultry: Types,	Dr Sangita Manna	4
	Selection, Purchase, Storage,		
	Uses, preparations Cost, Spoilage		
	of fish Poultry and meat.		
6.	Vegetables and Fruits: Variety,	Dr Sangita Manna	4
	Selection, purchase, storage,		
	availability causes and nutritional		
	aspects of raw and processed		
	products and use in different		
	preparations.		
7.	Sugar and sugar Products: Types	Dr Ankhi Haldar	4
	of natural, sweeteners,		
	manufacture, selection, storage		
		l	

sugar cookery.Image: sugar cookery.8.Fats and Oils: Types and sources (animal and vegetable), Processing, uses in different preparations, storage, cost and nutritional aspects.Dr Suryatapa Das49.Raising and Leavening agents: Types, constituents, uses in cookery and bakery, storage.Dr Ankhi Haldar2
9.Raising and Leavening agents: Types, constituents, uses inDr Ankhi Haldar2
Processing, uses in different preparations, storage, cost and nutritional aspects. Processing and Leavening agents: Processing agents: <td< td=""></td<>
preparations, storage, cost and nutritional aspects. preparations, storage, cost and nutritional aspects. 9. Raising and Leavening agents: Types, constituents, uses in Dr Ankhi Haldar 2
nutritional aspects.Dr Ankhi Haldar29.Raising and Leavening agents: Types, constituents, uses inDr Ankhi Haldar2
9. Raising and Leavening agents: Dr Ankhi Haldar 2 Types, constituents, uses in Image: Constituent of the second se
Types, constituents, uses in
cookery and bakery, storage.
10.FoodAdjuncts:Spices,Dr Ankhi Haldar4
condiments, herbs, extracts,
concentrates essences, food
colours, origin, classification,
description, uses, specifications,
procurements and storage.
11.Convenience Foods: Role, types,DrAninditaRay2
advantages, uses, cost and Chakravarti
contribution to diet.
12.Salt: Types and uses.DrAninditaRay2
Chakravarti
13. 13. Beverages. Tea; Coffee. Dr Anindita Ray 3
Chocolate and Cocoa Powder- Chakravarti
Processing, cost and nutritional
aspects, other beverages-Aerated
beverages, juices.
FNT-A-CC-FOOD COMMODITIES (PRACTICAL)2
3-7-P: CREDITS
1.Detection of starch, sucrose,Dr Suryatapa Das3
sucrose, formalin, boric acid, and

	urea in milk.	
2.	Detection of urea in puffed rice.	3
3.	Detection of Vanaspati in Ghee/Butter.	3
4.	Detection of Khesari flour in besan.	3
5.	Detection of Metanil yellow in turmeric/coloured sweet products.	3
6.	Detection of Argemone oil in edible oil.	3
7.	Detection of artificially colour / foreign matter in tea (dust/leaves).	3

LESSON PLAN 2023 (JAN-JUN)					
4th Semester Hons.					
FNT-A-CC-4-8-	HUMAN NUTRITION	I-II	4 Credit		
Th			Points		
SL NO.	Chapter	Teacher's			
		name			
1.	Nutrition during pregnancy: Factors	Dr	6		
	(non nutritional) affecting	Suryatapa			
	pregnancy outcome, importance of	Das			
	adequate weight gain during				
	pregnancy, antenatal care and its				
	schedule, Nutritional requirements				
	during pregnancy and modification				
	of existing diet and				
	supplementation. Deficiency of				
	nutrients specially energy, iron,				
	folic acid, protein, calcium, iodine.				
	Common problems of pregnancy				
	and their managements, specially				
	nausea, vomiting, pica, food				
	aversions, pregnancy induced				
	hypertension, obesity, diabetes,				

	Adolescent pregnancy.		
2.	Nutrition during Lactation:	Dr Anindita 4	ļ
	Nutritional requirements during	Ray	
	lactation, Dietary management,	Chakravarti	
	food supplements, galactogogues,		
	preparation for lactation. Care and		
	preparation of nipples during		
	breastfeeding.		
3.	Nutrition during Infancy: Infant	Sajida 6)
	physiology relevant to feeding and	Khatoon	
	care. Breast feeding- colostrum, its		
	composition and importance in		
	feeding, Initiations of breast		
	feeding. Advantages of exclusive		
	breastfeeding. Basic principles of		
	breastfeeding. Introduction of		
	supplementary food, initiation and		
	management of weaning. Baby-led		
	weaning. Bottle feeding-		
	circumstances under which bottle		
	feeding is to be given. Care &		
	sterilisation of bottles. Preparation		
	of formula. Mixed-feeding,		
	breastfeeding and artificial feeding.		
4.	Management of preterm and low	Sajida 2	
	birth weight babies.	Khatoon	
5.	Nutritional needs of toddlers,	Sangita 3	9+2
	preschool, school going children	Manna	
	and		
	Adolescents- dietary management	Ankhi	
		Halder	

FNT-A-CC-4-8-	HUMAN NUTRITION	N-II	2 Credit
P:	(PRACTICAL)		points
1.	Planning and preparation of	Dr	8
	adequate meals for different age	Suryatapa	
	groups with special reference to	Das	
	different physiological conditions:		
	infants, pre-schooler, school		
	children, adolescents, adults,		
	pregnancy, lactation and old age.		
FNT-A-CC-4-9-	DIET THERAPY-I	[4 Credit
Th:			Points
1.	Basic concepts of diet therapy:	Dr Anindita	2
	Therapeutic adaptation of normal	Ray	
	diet, principles and classification of	Chakravarti	
	the therapeutic diets.		
2.	Team approach to health care.	Dr Anindita	2
	Assessment of Patient's needs.	Ray	
		Chakravarti	
3.	Routine Hospital Diets: Regular,	Dr Anindita	3
	light, soft, fluids, parenteral, and	Ray	
	enteral feeding.	Chakravarti	
4	Diets for different febrile	Dr Ankhi	5
	conditions. influenza, malaria and	Halder	
	typhoid.		
5.	Etiological factors, symptoms and	Dr	2
	management of common diseases	Suryatapa	
	of stomach- Gastritis, and peptic	Das	
	ulcer.		
6.	Etiology, symptoms, and	Dr	5
	management of intestinal diseases:	Suryatapa	

	Diarrhoea, Steatorrhoea,	Das	
	Diverticular diseases, Inflammatory		
	bowel disease, Ulcerative Colitis,		
	Flatulence, Constipation, Irritable		
	Bowel Syndrome.		
7.	Diseases of the liver and Biliary	Sajida	5
	system: Liver function tests.	Khatoon	
	Etiology, symptoms, dietary care		
	and general management of Viral		
	Hepatitis and Cirrhosis of liver.		
	Dietary care and management of		
	gallbladder diseases- Cholecystitis		
	and Cholelithiasis.		
8.	Anaemia: Geeral concept,	Dr Sangita	3
	aetiology, classificatio and dietary	Manna	
	management of Nutritional		
	anaemia.		
FNT-A-CC-4-9-	DIET THERAPY-I (PRAC	TICAL)	2 Credits
P:			
1.	Planning and preparation of normal	Dr Anindita	3
	diets.	Ray	
		Chakravarti	
2.	Planning and preparation of fluid		3
	diets.		
3.	Planning and preparation of		3
	soft/semi solid diets.		
4.	4. Planning and preparation of Diets		3+3+3
	for the following diseases:		
	i) Peptic ulcer		

	ii) Viral hepatitis		
	iii) Anaemia		
FNT-A-CC-4-	NUTRITIONAL BIOCHEM	IISTRY-I	4 Credits
10Th			
1.	Introduction of Biochemistry:	Dr Tanima	2
	Definition, objectives, scope and	Pal	
	inter relationship between		
	biochemistry and other biological		
	science.		
2.	Enzymes: Definition, types and	Sejuti Ray	6
	classification of enzymes. definition		
	and types of coenzymes. Functions		
	of coenzymes and cofactors,		
	Specificity of enzymes, Isozymes		
	enzymes Kinetics including factors		
	affecting enzyme action. Velocity		
	of enzyme catalysed reactions,		
	regulations of enzyme activity,		
	zymogen, allosteric enzymes,		
	enzyme inhibition.		
3.	Intermediary metabolism:	Dr Tanima	6
	Carbohydrate Metabolism,	Pal	
	Glycolysis, TCA cycle & energy		
	generation, HMS shunt pathway,		
	gluconeogenesis, glycogenesis,		
	glycogenolysis, blood sugar		
	regulation.		
4.	Lipid: Oxidation and biosynthesis	Sejuti Ray	5

	of fatty acids (saturated & mono-		
	unsaturated). Synthesis and		
	unilization of ketone bodies,		
	Ketosis, fatty livers, Essential fatty		
	acids, Cholesterol and its clinical		
	significance.		
FNT-A-CC-4-	NUTRITIONAL BIOCHEM	IISTRY-I	2 Credits
10-P:	(PRACTICAL)		
1.	Quantitative estimation of Sugars	Dr Tanima	3
	(Glucose, lactose, starch)	pal and	
		Sejuti Ray	
2.	Estimation of acid value, iodine		3
	value, Saponification value of fats		
3.	Estimation of blood Glucose		3
4.	Estimation of serum cholesterol		3

LESSON PLAN 2023 (JUL-DEC)			
5th Semester Hons			
FNT-A-CC-5-	DIET THERAPY-II		4
11-Th:			CREDITS
Sl No.	Chapters	Teacher's name	
1.	Energy modifications and	Dr Anindita Ray	3
	nutritional care for weight	Chakravarti	
	management: Assessment,		
	etiology,		
	complications, prevention and		
	treatment of obesity and		
	underweight.		
2.	Diet in disease of the endocrine	Dr Sangita	4
	pancreas: Diabetes Mellitus:	Manna	
	Classification, symptoms,		
	diagnosis, management -insulin		
	therapy, oral hypoglycaemic		
	agents, glucose monitoring		
	at home, dietary care and nutrition		
	therapy, meal plan (with and		
	without insulin), special		
	diabetic foods and artificial		
	sweeteners.		
3.	Hypertension: classification,	Dr Suryatapa	6
	aetiology, symptoms and dietary	Das	
	management.		
	Diseases of the cardiovascular		
	system: Definition of infarct,		

	ischemia, angina		
	pectoris, myocardial infarction,		
	heart attack and stroke.		
	Atherosclerosis and		
	hyperlipidaemias – classification,		
	symptoms, dietary and		
	lifestyle management.Prevention		
	of cardiovascular diseases.		
4.	Renal Diseases: Etiology,	Sajida Khatoon	6
	symptoms and dietary		
	management of acute and chronic		
	Glomerulonephritis. Nephrotic		
	syndrome - dietary management.		
	Uraemia – dietary		
	Nephrolithiasis - dietary		
	management. Use of sodium and		
	potassium exchange list.		
FNT-A-CC-5-	DIET THERAPY-II (PR	ACTICAL)	2 Credits
11-P:			
	Planning and preparation of Diets		3+3+3+3+3+
	for the following diseases:		3
	i) Obesity and Underweight	Dr Anindita Ray	
	ii) Diabetes mellitus	Chakravarti	
	iii) Hypertension and	Sajida Khatun	
	Atherosclerosis		
	iv) Acute and chronic		
	glomerulonephritis.		
FNT-A-CC-5-	NUTRITIONAL BIOCHE	MISTRY-II	4 Credits
12-Th:			
1.	Brief Introduction of biological	Sejuti Ray	3

	membranes to understand		
	molecular transport, Transport		
	of Large molecules, Receptor		
	mediated endocytosis, exocytosis,		
	Molecular aspects of		
	transport; Passive diffusion,		
	facilitated diffusion, active		
	transport.		
2.	Introduction to Nucleic acids:	Sejuti ray	4
	Structure, replication,		
	transcription, genetic code (in		
	brief)		
	elementary knowledge of		
	biosynthesis of proteins.		
3.	Proteins: General reaction of	Dr Tanima Paul	4
	amino acid metabolism, urea		
	cycle. Lipoproteins: Types,		
	composition, role and significance		
	in disease(in brief).		
4.	Vitamins: Chemistry and	Dr Tanima Paul	3
	biochemical role of fat soluble		
	vitamins. A. D. E. and K. Water		
	soluble vitamins - B1, B2, B6		
	niacin and C.		
5.	Minerals: Biochemical role of	Sejuti Ray	3
	inorganic elements.		
FNT-A-CC-5-	NUTRITIONAL BIOCHE	MISTRY-II	2 Credits
12-P:	(PRACTICAL)	
1.	Qualitative analysis of amino	Dr Tanima paul	3
	acids	and Sejuti Ray	

2.	Qualitative analysis of proteins	3
3.	Estimation of serum Protein	4
4.	Estimation of serum creatinine	2
5.	Estimation of serum Urea	2
6.	Estimation of serum Iron, phosphorus, calcium	3+2+2

	LESSON PLAN 2023 (JAN-JUN)	
	6th Semester Hor	18.	
FNT-A-CC-6- 13-Th:	FOOD MICROBI	OLOGY	4 Credits
Sl No.	Chapters	Teacher's name	
1,	 Brief history of food microbiology and introduction to important microorganisms 	Dr Tanima paul	2

	in foods		
2.	Cultivation of microorganisms,	Sejuti Ray	4
	Nutritional requirements of		
	microorganisms, types of		
	media used, methods of		
	isolation.		
3.	Primary sources of	Sejuti Ray	4
	microorganisms in foods,		
	physical and chemical methods		
	used in the destruction of		
	microorganism in foods:		
	(Sterilisation & Disinfection).		
4.	Fundamentals of control of	Dr Tanima Paul	4
	microorganism in foods:		
	Extrinsic and intrinsic		
	parameters affecting growth		
	and survival of microbes, use		
	of high and low temperature,		
	dehydration, freezing. freeze-		
	drying, irradiation and		
	preservatives in food		
	preservation.		
5.	Food Spoilage: Contamination	Sejuti Ray	4
	and microorganisms in the		
	spoilage of different kinds of		
	foods and such as cereal and		
	cereal products, vegetable and		
	fruits, fish and other sea foods,		
	meat and meat products, eggs		
	and poultry, milk and products,		
	canned foods.		

FNT-A-CC-6-	FOOD MICROBI	OLOGY	2 Credits
13-P:	(PRACTICA	L)	
1.	1.Introductiontomicrobiology:	Dr Tanima Paul and Sejuti Ray	2
	Use of equipment		
	Understanding and use of compound microscope		
	Use of Autoclave		
	Use of Incubator and Inoculation chamber.		
2.	Microscopic identification of microorganisms (prepared slides): Bacterial, fungal strains.		4
3.	Preparation of liquid and solid media for culture of microorganisms.		6
4.	4. Staining Techniques to study of Morphology of bacterial cells: Simple staining with methylene blue, methyl violet, carbolfuschin, etc. Differential staining with Gram stain technique		4
5.	Microbiological techniques: Pure culture technique-Spread		6

	plate, Pour plate and Streak		
	plate.		
FNT-A-CC-6-	FOOD PRESERV	ATION	4
14-Th:			CREDITS
1.	Food preservation: definition,	Sajida Khatoon	4
	objectives and principles of		
	food preservation. Different		
	methods of food preservation.		
2.	Preserved Products: Jam, Jelly,	Sajida Khatoon	4
	Marmalade, Sauces, Pickles,		
	Squashes, Syrups-types		
	composition and manufacture,		
	selection, cost, storage, uses		
	and nutritional aspects.		
3.	Food Standards ISI, Agmark,	Sajida Khatoon	2
	FPO, MPO, PFA, FSSAI		
FNT-A-CC-6-	FOOD PRESERVATION	(PRACTICAL)	2
14-P:			CREDITS
1.	Different methods of Food	Sajida Khatoon	3
	preservation-Drying, Freezing,		
	Frying, canning. bottling etc.		
2.	Aseptic handling: Sources of		3
	contamination of foods.		
3.	Preparation of pickles, tomato		3+3+3+3+3
	sauce, chilli sauce, jelly,		
	tomato puree, squashes etc.		

DISCIPLINE SPECIFIC ELECTIVE (DSE) SYLLABUS

I	LESSON PLAN 2023 (JAN - JUN)		
	DSE (Semester I)		
FNT-A- DSE-A-	PUBLIC HEALTH		4
5-1-Th			CREDITS
SL No.	Chapters	Teacher's	Hours
		name	
1.	Health and Dimension of Health:	M.B.	2
	Positive health Versus Absence		
	of disease		
2.	Secondary Sources of		3

	Community Health data :Sources	
	of relevant vital statistics	
	of infant, child & maternal	
	mortality rates	
3.	Immunisation: Importance and	3
5.	Immunization schedule for	5
	children, adults and for foreign	
	travellers.	4
4.	Community Water and Waste	4
	Management: Importance of	
	water to the community,	
	etiology and effects of toxic	
	agents, water borne infectious	
	agents, sources of water, safe	
	drinking water, potable water,	
	waste and waste disposal,	
	sewage disposal and treatment,	
	solid waste and disposal, liquid	
	waste disposal.	
5.	Concept of Epidemiology: Study	 3
	of the epidemiologic approach-	
	determinants of disease	
	preventive & social means.	
6.	Communicable and infectious	4
	disease control: Nature of	
	communicable and infectious	
	diseases, infection,	
	contamination, disinfections,	
	decontamination, transmission-	
	direct &	
	indirect, vector borne disease	

	infecting organisms and positive		
	agents, environmental		
	agents and epidemiological		
	principles of disease control.		
7.	Public health hazards due to		3
	contaminated foods: Food borne		
	infections and intoxications:		
	symptoms, mode of transmission		
	and methods of prevention,		
	investigation and detection		
	of food borne disease out-break.		
FNT-A-DSE-A-	PUBLIC HEALTH (PRA	CTICAL)	2 Credits
5-1-P			
1.	Preparation of 3 audio visual	M.B.	3
	aids like charts, posters, models		
	aids like charts, posters, models related to health and		
2.	related to health and		3
2.	related to health and nutrition education.		3
2.	related to health and nutrition education. Formulation and preparation of		3
2.	related to health and nutrition education. Formulation and preparation of low cost and medium cost		3
	related to health and nutrition education. Formulation and preparation of low cost and medium cost nutritious/ supplementary recipe.		
	related to health and nutrition education. Formulation and preparation of low cost and medium cost nutritious/ supplementary recipe. Field visit(health centre,		

LESSON PLAN 2023 (JUL - DEC)			
DSE (Semester II)			
FNT-A-DSE-	MUSHROOM CULTUR	C	4
A-5-2-Th:			Credits
Sl No.	Chapters	Teacher's	Credit
		name	Points
1.	Definition and characteristics of		
	mushroom.		
2.	Morphology and life cycle of Mushroom.		
3.	Identification and classification of		
	mushroom		
4.	Nutritional and medicinal value of edible		
	mushrooms; poisonous mushrooms		
5.	Types of edible mushrooms available in		
	India- Volvariella volvacea, Pleurotus		
	citrinopileatus, Agaricus bisporus.		
6.	Process of mushroom cultivation.		
7.	Storage and nutrition: short term storage		
	(Refrigeration- upto 24 hours), long term		

	storage (canning, pickles, papads), drying, storage in salt solutions.	
FNT-A-	MUSHROOM CULTURE (PRACTICAL)	2
DSE- A-5-2-		Credits
Р		
1.	Visit to Mushroom Culture Centers/ Farms	
	for:	
	Process involved in mushroom cultivation	
	Types and varieties of mushroom	
	Visual Identification of edible and	
	poisonous	
	mushroom Marketing.	
2.	Different Food preparation from	
	mushroom	

	LESSON PLAN 2023 (JAN - JUN)		
	DSE (Semester III)		
FNTA-	DIET COUNSELLING AND	PATIENT	4 Credits
DSE- A-6-	CARE		
3-Th			
Sl No.	Chapters	Teacher's	Credit
		name	Points
1.	Introduction to term Dietician:		
	Definition of Dietician , Difference		
	between registered dietician &		
	Nutrition		
2.	Role of dietician in hospital : work area		
	of hospital dietician, role of dietician in		
	hospital		
3.	Role of dietician in community :- work		
	area of community dietician, role of		
	community dietician		
4.	Introduction to Nutrition Care Process:		
	Definition of Nutrition Care Process		
	.Steps of Nutrition		
	Care Process.		

5.	Nutrition Assessment:-Definition ,		
	Nutrition assessment component,		
	Critical thinking		
6.	6. Nutrition Diagnosis: nutrition		
	diagnosis domain:- intake, clinical,		
	behavioral – environmental		
7.	Nutrition diagnosis component•		
	nutrition vs. medical diagnosis.		
8.	Nutrition Interventions: Definition and		
	objectives		
9.	Nutrition Monitoring & Evaluation :		
	Definition, Nutrition monitoring &		
	evaluation		
	components, nutrition goals &		
	objectives. Evaluation of nutrition care		
FNT-A-	DIET COUNSELLING AND	PATIENT	2 Credits
FNT-A- DSE- A-6-	DIET COUNSELLING AND CARE (PRACTICAL		2 Credits
			2 Credits
DSE- A-6-			2 Credits
DSE- A-6- 3-P:	CARE (PRACTICAL		2 Credits
DSE- A-6- 3-P:	CARE (PRACTICAL Visit and training to hospitals/nursing		2 Credits
DSE- A-6- 3-P:	CARE (PRACTICAL Visit and training to hospitals/nursing homes for 7-15 days :		2 Credits
DSE- A-6- 3-P:	CARE (PRACTICAL Visit and training to hospitals/nursing homes for 7-15 days : 1 Taking Case history and study		2 Credits
DSE- A-6- 3-P:	CARE (PRACTICAL Visit and training to hospitals/nursing homes for 7-15 days : 1 Taking Case history and study 2 Routine Hospital diet		2 Credits
DSE- A-6- 3-P:	CARE (PRACTICAL Visit and training to hospitals/nursing homes for 7-15 days : 1 Taking Case history and study 2 Routine Hospital diet 3 Distribution of food from kitchen to		2 Credits
DSE- A-6- 3-P:	CARE (PRACTICAL Visit and training to hospitals/nursing homes for 7-15 days : 1 Taking Case history and study 2 Routine Hospital diet 3 Distribution of food from kitchen to individual patient with specific diet. 4		2 Credits
DSE- A-6- 3-P:	CARE (PRACTICAL Visit and training to hospitals/nursing homes for 7-15 days : 1 Taking Case history and study 2 Routine Hospital diet 3 Distribution of food from kitchen to individual patient with specific diet. 4 Dietary management of patient in		2 Credits
DSE- A-6- 3-P:	CARE (PRACTICAL Visit and training to hospitals/nursing homes for 7-15 days : 1 Taking Case history and study 2 Routine Hospital diet 3 Distribution of food from kitchen to individual patient with specific diet. 4 Dietary management of patient in different diseases and diet chart for the		2 Credits
DSE- A-6- 3-P:	CARE (PRACTICAL Visit and training to hospitals/nursing homes for 7-15 days : 1 Taking Case history and study 2 Routine Hospital diet 3 Distribution of food from kitchen to individual patient with specific diet. 4 Dietary management of patient in different diseases and diet chart for the particular patient.		2 Credits
DSE- A-6- 3-P:	CARE (PRACTICAL Visit and training to hospitals/nursing homes for 7-15 days : 1 Taking Case history and study 2 Routine Hospital diet 3 Distribution of food from kitchen to individual patient with specific diet. 4 Dietary management of patient in different diseases and diet chart for the particular patient. 5 Role of dietitian /nutritionist in diet		2 Credits

LESSON PLAN 2023 (JUL - JUN) DSE (Semester IV)				
A-6-4-Th			CREDITS	
SL No.	Chapters	Teacher's name	Credit Points	
1,	Definition of ageing, senescence,	Dr Sangita	3	
	old age or aged people,	Manna		
	gerontology, geriatrics, and			
	Geriatric			
	nutrition. Classification of old			
	population.			
2.	Physiological and biochemical	Dr Sangita	4	
	changes during old age.	Manna		
3.	Assessment of nutritional status of	Dr Suryatapa	3	
	older adults.	Das		
4.	Nutritional requirements and	Dr Suryatapa	3	
	general dietary guidelines for	Das		
	elderly.			
5.	Major nutritional and health	Dr Suryatapa	2	
	problems during old age.	Das		
FNT-A-DSE-	GERIATRIC NUTRITION (PRACTICAL)		2 Credits	
A-6-4-P				
1.	Visit to old- age homes.	Dr. Sangita	3	
		Manna		
2.	Preparation of dishes suitable for	Dr. Sangita	3	

older person- soft, semisolid and	Manna	
easily digestible		
balanced diet.		

LESSON PLAN 2023 (JAN - JUN)			
	DSE (Semester	V)	
FNT-A-DSE-	THEORIES OF H	IUMAN	4 Credits
B-5-1-Th:	DEVELOPME	ENT	
Sl No	Chapters	Teacher's name	Credit Points
1.	Introduction to theories in		
	Human Development: Key		
	themes in the study of Human		
	Development- Nature/nurture,		
	active/ passive,		
	continuity/discontinuity,		
	individual		
	differences and similarities.		
	Understanding a theory, Role of		
	theories in understanding		
	Human Development.		
2.	Perspectives on Human		
	Development : Evolutionary and		
	Ethological /Biological:		
	Darwin, Lorenz, Bowlby,		
	Ecological: Bronfenbrenner,		
	Behavioural: Pavlov, Skinner,		
	Bandura		
3.	Selected theories of human		
	development : Psychodynamic;		
	psychosexual and		
	psychosocial theories; Freud,		
	Erikson, Cognition: Piaget,		
	Vygotsky, Models and		
	Theories of Intelligence:		

	Guilford, Spearman and		
	Gardener, Humanistic: Maslow		
	and		
	Rogers.		
4.	Theories in everyday life:		
	Eclectic theoretical orientation,		
	Ethno theories.		
FNT-A-DSE-	THEORIES OF H	UMAN	2 Credits
B-5-1-P	DEVELOPMENT (PR	ACTICAL)	
1.	Biography of a theorist with a		
	focus on his/her family life and		
	childhood experiences.		
2.	Depict the 'eco-cultural'		
	network for a child using the		
	ecological model		
3.	Verification of selected theories		
	using multiple methods.		
4.	Observe/ analyze creation of		
	media product for children or		
	product such as toys/		
	clothes using theoretical base.		
5.	Locate a tool/ scale of		
	psychometric tests and		
	administer it.		
6.	. Autobiography		
FNT-A-DSE-	NON-FORMAL ADULT A	ND LIFE LONG	4 Credits
B-5-2-Th:	EDUCATIO	Ν	
1.	Non Formal Education,		
	Difference between formal &		
	Non-Formal Education,		

	G: :C C	
	Significance of	
	Non-Formal Education in India	
	New education policy & NFE	
	Scope of NFE in communities-	
	Techniques of community study,	
	Domains of Non-Formal	
	Education	
2.	Organizing NFE programmes-	
	target group; Physical aspects;	
	organizing and implementation	
	Publicity of Non-Formal	
	Programme; Planning and	
	implementing publicity plan.	
3.	Adult Education: Meaning,	
	concept and scope of Adult	
	Education, Adult Education	
	programme in India, Adult	
	Education and Extension,	
	Characteristics of Adult	
	Learners,	
	Difference between Adult &	
	Child learning Learning	
	theories; Characteristics of Adult	
	learning, developmental tasks of	
	Adults, Factors associated with	
	Adult learning, Motivating	
	and sustaining Adult learners.	
4.	Life Long Education :	
	Definition, meaning and concept	
	of Life Long Education, Life	
	Long	
	5	

	Education: Historical and	
	contemporary perspectives,	
	Components and objectives of	
	Life Long	
	Education, Significance of Life	
	Long Education in contemporary	
	society, Forms and domains of	
	Life Long Education, Principles	
	of Life Long Education	
5.	Methods and Material for Non	
	Formal/Adult/ Life Long	
	Education: Methods and	
	approaches	
	for organizing NFE programmes	
	for different target groups,	
	Scope of communication	
	methods	
	and materials for NFE objectives	
6.	Programmes of Non	
	Formal/Adult/ Life Long and	
	Continuing Education: National	
	and	
	international programmes.	
	Local, State, National and	
	international agencies- policy	
	and	
	programmes, Monitoring and	
	evaluation of NFE /Adult/ Life	
	Long and Continuing Education	
	programmes .	
FNTA-DSE-	NON-FORMAL ADULT	2 Credits

B-5-2-P:	AND LIFE LONG	
	EDUCATION	
	EDUCATION	
	(PRACTICAL)	
1.	Visits to different NGO's	
	involved in Non	
	Formal/Adult/Life Long	
	Education.	
2.	Inviting experts from	
	Government/Universities/	
	NGO's to share their experience	
	of Non	
	Formal/Adult/Life Long	
	Education.	
3.	Reporting of Literacy news,	
	events from periodicals and	
	news papers.	
4.	Planning and organizing NFE/	
	continuing education	
	programmes	
5.	Monitoring and Evaluation of	
	programmes.	
4		I I

LESSON PLAN 2023 (JAN - JUN)		
DSE (Semester VI)		
FNT-A-	CHILDHOOD DISABILITY AND SOCIAL	4 Credits
DSE-B-6-3-	ACTION	
Th		

SL No.	Chapters	Teacher's name	Credit
			Points
1.	Understanding Disability and Inclusion:		
	Defining and understanding disability,		
	Rights of		
	persons with disability and UNCRPD,		
	Perspective on disability: Individual and		
	social,		
	Attitudes towards disability- family,		
	school, society and media		
2.	Types of Disability: Identification,		
	assessment and etiology with reference		
	to:		
	Physical disabilities, Intellectual		
	disability, Sensory disabilities- Visual		
	and auditory IV.		
	Learning disability, Autism		
3.	Disability and society: Overview of		
	practices and provisioning related to		
	addressing disability		
	in India, Prevention, therapy, education		
	and management, Families of children		
	with disabilities,		
	Policy and laws		
FNT-A-	CHILDHOOD DISABILITY A	ND SOCIAL	2 Credits
DSE-B-6-3-	ACTION (PRACTICA	AL)	
P:			
1.	Visits- Government and Private		
	Institutions and Organisations (CGC,		
	schools,		

	NGO's, Hospitals)	
2.	Observe the context	
3.	Case profile of child with disability	
4.	Program planning	
5.	Planning developmentally appropriate	
	material for children with disability	
FNT-A-	CHILD RIGHTS AND	4 Credits
DSE-B-6-4-	GENDER JUSTICE	
Th:		
1.	Introduction to Child Rights: Concept of	
	Child rights, Demographic profile of	
	Indian	
	children, Disadvantage, deprivation and	
	social exclusion with reference to	
	children, Laws,	
	policies and programmes for children in	
	India, UNCRC.	
2.	Children in need of care and	
	protection:Vulnerable groups: causes	
	and consequences. Street,	
	homeless, institutionalized and working	
	children	
	Child Abuse, Child Trafficking,	
	Children in conflict with the law,	
	Children living with: chronic	
	Illness, HIV.	
3.	Social construction of gender	
	Socialization for gender: gender roles,	
	stereotypes and identity,	
	Gender in the workplace and in public	

	spaces, Contemporary influences: media	
	and popular	
	culture, Demographic profile of women	
	and children in India.	
4.	Gender and Indian society : Sex and	
	Gender, Masculinity and Femininity,	
	biological and	
	cultural determinants, Patriarchy and	
	social institutions, Being male and	
	female in Indian	
	society-social traditions and	
	contemporary issues, Exploring the	
	issues of violence against	
	females, Laws, policies and	
	programmes for children and women.	
FNT-A-	CHILD RIGHTS AND	2 Credits
DSE-B-6-4-	GENDER	
Р	JUSTICE(PRACTICAL)	
1.	Visits to organizations working in the	
	area of Child Rights and Gender to	
	understand their	
	understand their objectives programmes and experiences.	
2.		
2.	objectives programmes and experiences.	
2.	objectives programmes and experiences. . Workshops on relevant issues like	
2.	objectives programmes and experiences. . Workshops on relevant issues like Gender, domestic violence, gendering	
	objectives programmes and experiences. . Workshops on relevant issues like Gender, domestic violence, gendering of public spaces.	
	objectives programmes and experiences. . Workshops on relevant issues like Gender, domestic violence, gendering of public spaces. Understanding child rights and gender	
	objectives programmes and experiences. . Workshops on relevant issues like Gender, domestic violence, gendering of public spaces. Understanding child rights and gender issues in diverse social groups through	

SKILL ENHANCEMENT COURSE(SEC)

LESSON PLAN 2023 (JUL - DEC)			
SEC (Semester III)			
FNT-A-	SPORTS NUTRITION		2 Credits
SEC-A-3-			
1-Th:			
SL NO	Chapters	Teacher's name	Credit
			Points
1.	Definition of physical activity, exercise,	Aritri Nandy	3
	physical fitness, sports physiology and		
	sports nutrition.		
2.	Benefits of physical activity and	Aritri Nandy	3
	exercise.		

3.	Classification of Sports activities.	Aritri Nandy	3
4.	Nutritional requirements of sports	Aritri Nandy	3
	person.		
5.	Pre- event meal.	Aritri Nandy	2
FNT-A-	FOOD SERVICE MANAG	EMENT	2 Credits
SEC-A-3-			
2-Th:			
1.	Organization of food service	Sajida Khatoon	3
	management: Definition, Various types		
	of		
	Food Service institutions, their		
	characteristics and functions.		
2.	Planning a food service unit, layout	Sajida Khatoon	4
	design, planning of different work areas		
	– preparation,		
	cleaning, storing, serving and dining		
	areas. Lighting and ventilation, working		
	heights in		
	relation to equipment.		
3.	Institutional Menu Planning: Factors	Sajida Khatoon	3
	influencing menu planning, principles of		
	menu		
	planning, different kinds of menus.		
4.	Quality food Service – types-Centralized,	Sajida Khatoon	3
	de-centralized objectives. Styles of		
	service.		
5.	Importance of sanitation and hygiene in	Sajida Khatoon	3
	food, kitchen hygiene, Hygienic handling		
	of Food,		
	employee's health, hygiene of food		

	service unit.		
6.	Personnel Management- selection,	Sajida Khatoon	3
	training and supervision of personnel,		
	criteria for		
	selection of Dietitian and Food Service		
	staff.		
	SEMESTER IV		
FNTA-	NUTRITION AND HEALTH E	DUCATION	2 Credits
SEC- B-4-			
1-Th:			
1.	Concept, objectives and importance of	Anindita	2
	nutrition and health education	Chakraborty	
2.	Principles of health education.	Anindita	2
		Chakraborty	
3.	Nutrition and health education	Anindita	2
	communication process.	Chakraborty	
4.	Steps in planning health and nutrition	Ankhi Haldar	2
	education.		
5.	Methods involved in nutrition and health	Ankhi Haldar	4
	education		
6.	Evaluation of nutrition and health	Ankhi Haldar	2
	education programmes.		
FNT-A-	BAKERY SCIENCE		2 Credits
SEC-B-4-			
2-Th:			
1.	Introduction and scope of bakery science.		
2.	Common bakery terms		
3.	Flours: Constituents of flour, water		
	absorption power, gluten, grades of flour.		

4.	Raw materials required for bread and cake making.	
5.	Role of flour, water , yeast, salt, sugar, milk and fats in bakery.	
6.	Bread and cake making process	
7.	Bread improver.	
8.	Knowledge of oven and baking temperatures.	
9.	Preparation of basic cookies, biscuits and pastries	

LESSON PLAN (2023) JUL-DEC				
1st Semester GENERAL				
FNT-G-	ELEMENTARY CHE	CMISTRY	4	
CC/GE-1-			CREDITS	
1Th				
Sl no	Chapters	Teacher's name		
1.	Law of conservation of mass,	Sejuti Ray	2	
	chemical and physical changes,			
	Mechanical mixtures			
	and chemical compounds			
2.	Common Laboratory Processes:	Tanima Paul	2	
	Sedimentation, Decantation,			
	Filtration, Solution,			
	Evaporation, Boiling, Desiccation,			
	Distillation, Sublimation, Fusion,			
	Ignition,			
	Crystallisation, Efflorescence,			
	Deliquescence.			
3.	Symbol, Valency, Formula,	Sejuti Ray	2	
	Equation, Naming of Compounds,			
	Radicals.			

4	General concept of acids, bases and	Tanima Paul	2
•	salts, conjugate acids and bases,		
	Classification of		
	salts, Hydrolysis of salts, pH,		
	Buffer solution. Equivalent weight		
	of acids, bases and		
	salts, neutralisation, Acid-Base		
	indicators, Molar solution, Normal		
	solution and		
	Formula solution.		
-			2
5.	Diffusion and Osmosis, Osmotic	Sejuti Ray	2
	pressure, Isotonic solution,		
	Definition and examples.		
6.	Colloids: Definition, Types of	Tanima Paul	2
	colloidal systems,		
	Importantproperties of colloidal		
	sols,		
	Dialysis.		
7.	Structure of atom: Discovery of	Sejuti Ray	2
	atomic nucleus, Rutherford's		
	atomic model, concept		
	of Stationary orbit, Electronic		
	arrangement of elements (
	Hydrogen to		
	calcium), Atomic number, Isotopes,		
	Chemical bonds – Electrovalent,		
	Covalent and		
	coordinate – covalent bonds,		
	Hydrogen bonds.		
8.	Chemistry of carbon compounds:	Tanima Paul	2
	Classification of organic		

	compounds based on		
	structural characteristics and		
	functional groups, isomerism,		
	Concept of optical		
	isomerism. General methods of		
	preparation, properties and		
	reactions of structured and		
	unstructured hydrocarbons,		
	Aliphatic monohydric alcohols,		
	Glycerol, Aldehyde,		
	Ketones and fatty acids upto 3		
	atoms with nomenclature		
FNT-G-	ELEMENTARY		2 Credits
CC/GE-1-1	CHEMISTRY		
Р	(PRACTICAL)		
1.	Fitting of simple apparatus,	Tanima Paul	3
	experiment involving solution,		
	filtration, distillation, and		
	crystallization. Separation of		
	constituents of mixture		
2.	Titration of acids and bases.	Sejuti Ray	3
	Determination of total hardness of		
	water by soda reagent.		
	Estimation of glucose.		
3.	Simple chemical tests for	Sejuti Ray	3
	carbohydrate- Starch, glucose, cane		
	sugar, lactose, and		
	dextrin		
4.	Qualitative tests-Protein in milk	Tanima Paul	3
	and egg, Calcium, phosphorus, and		

	iron in foodstuff			
	LESSON PLAN (2023) JAN-JUNE			
	2 ND Semester GENE	RAL		
FNT-G-	ELEMENTARY PH	IYSICS	4	
CC/GE-2-2-			CREDIT	
Th			S	
Sl no	Chapters	Teacher's name		
1.	Units –C.G.S. and F.P.S. system	Suryatapa Das	2	
2.	Measurement of mass and weight, common and spring balance.	Suryatapa Das	2	
3.	Motion of body – displacement, velocity, acceleration units	Suryatapa Das	2	
4.	Gravity – Acceleration due to gravity.	Suryatapa Das	2	
5.	Hydrostatistics–Pressure at a point, Archimedes Principles, Specific gravity, viscosity and surface tension	Suryatapa Das	2	
6.	Thermometry	Suryatapa Das	2	
7.	Calorimetry.	Suryatapa Das	2	
8.	Transmission of heat, Thermoflask.	Suryatapa Das	2	
9.	Three types of matter, changes of state, pressure cooker, Ice-machine	Suryatapa Das	2	
10.	Static electricity – Charging by friction, conductor and Insulator.	Sejuti Ray	2	
11.	Primary cell, storage cell.	Sejuti Ray	2	
12.	Electroplating.	Sejuti Ray	2	
13.	Definition of Potential, Current- relation between two.	Sejuti Ray	2	

14.	Measurement of current by ammeter and potential differential by voltmeter.	Sejuti Ray	2
15.	Electricity and its application in daily life – lamp, Toaster, Geyser, iron, Microoven	Sejuti Ray	2
16.	Refrigerator, cold storage.	Sejuti Ray	2
17.	Electric fuse.	Sejuti Ray	2
FNT-G-	ELEMENTARY		2 Credits
CC/GE-2-2-	PHYSICS(PRACTICAL)		
Р			
1.	Use of balance (Weighing a body)	Dr. Sima	3
		Chakrabarti	
2.	Determination of specific gravity	Dr. Sima	3
	of a solid (heavier and insoluble in water).	Chakrabarti	
3.	Determination of specific gravity	Dr. Sima	3
	of a liquid by hydrostatic balance.	Chakrabarti	
4.	Determination of specific gravity	Dr. Sima	3
	of a liquid by specific gravity bottle	Chakrabarti	
5.	Reading of barometer	Dr. Sima	2
		Chakrabarti	
6.	Determination of lower and upper	Dr. Sima	2
	fixed point of a thermometer	Chakrabarti	
7.	Fitting of electric fuses.	Dr. Sima	2
		Chakrabarti	

LESSON PLAN (2023) JULY-DEC

3 RD Semester GENERAL			
FNT-G- CC/GE-3-	ELEMENTARY PHYS	ENTARY PHYSIOLOGY CRE	
3Th Sl no	Charton	Teacher's name	
	Chapters		2
1.	Animal cell: Structure and function	Aritri Nandy	3
2.	Tissue: Definition, structure and functions of different types of tissue, e.g. epithelial, connective, nervous and muscular tissue (special emphasis on blood and bone).	Aritri Nandy	3
3.	Digestive system: Structure involve in digestive system (mouth, esophagus, stomach, small intestine, large intestine, liver, pancreas, gall bladder) and their functions. Digestion and absorption of Carbohydrate, protein and fat.	BM	4
4.	Elementary idea of metabolism, enzymes and hormones- name and their important functions. Metabolism in brief (Glycolysis, Glycogenesis, Gluconeogenesis, Cori's cycle, Kreb's cycle, Deamination, Transamination. Role of hormones in carbohydrate metabolism.	BM	4

FNT-G-	ELEMENTARY		2 Credits
CC/GE-3-3-	PHYSIOLOGY		
Р	(PRACTICAL)		
1.	Demonstration for determination of	Aritri Nandy + BM	3
	blood pressure of humans being-		
	(a) systolic and		
	b) diastolic.		
2.	Identification of slides (Blood	Aritri Nandy + BM	3
	cells, Stomach, Small intestine,		
	large intestine, Liver,		
	pancreas).		
3.	Determination of Bleeding Time	Aritri Nandy + BM	3
	(BT) and Clotting Time (CT).		
4.	Detection of Blood group	Aritri Nandy + BM	3

	LESSON PLAN (2023) JAN-JUNE			
	4 TH Semester GENE	RAL		
FNT-G-	BASIC NUTRITION AND F	OOD SCIENCE	4	
CC/GE-4-4-			CREDITS	
Th				
Sl no	Chapters	Teacher's name		
1.	Definition of Food, Nutrition,	Dr. Sangita Manna	3	
	Nutrient, Nutritional status,			
	Dietetics, Balance diet,			
	Malnutrition, Energy (Unit of			
	energy – Joule, Kilocalorie).			
2.	Carbohydrate, Protein, Fat,	Dr. Sangita Manna	6	
	Vitamins and Minerals (calcium,			
	phosphorus, sodium,			

	potassium, iron, iodine, fluorine)-		
	sources, classification, functions,		
	deficiencies of		
	these nutrients. Functions of water		
	and dietary fiber.		
3.	B.M.R: Definition, factors	Dr. Suryatapa Das	3
	affecting B.M.R. and Total Energy	v 1	
	Requirement		
	(Calculation of energy of		
	individuals).		
4	Basic five food groups: Nutritional	Dr. Ankhi Haldar	4
	significance of cereals, pulses,		
	milk, meat, fish,		
	vegetable, egg, nuts, oils, sugar.		
5.	Principles and objectives of meal	Dr. Ankhi Haldar	4
	planning. Diet for an infant (Breast		
	feeding versus		
	Bottle feeding).Preschool child,		
	school child, Normal male and		
	female of different		
	occupation.		
FNT-G-	BASIC NUTRITION AND		2 Credits
CC/GE-4-4-	FOOD SCIENCE		
Р	(PRACTI CAL)		
1.	Elementary idea of weight and	Dr. Sangita Manna	3
	measure.		
2.	Preparation of cereals, pulses,	Dr. Sangita Manna	3
	vegetable, egg, milk, fish, nuts		

3.	Demonstration of jam, jelly,	Dr. Sangita Manna	3
	squash, pickles.		
4.	Planning and preparation of diet	Dr. Sangita Manna	3
	often adult male/female		
	Modification of diet during		
	pregnancy and lactation.		

DISCIPLINE SPECIFIC ELECTIVE (DSE) SYLLABUS

(DSE-A (Opt any one in Semester-5)

LESSON PLAN 2023 (JAN - JUN)			
DSE (Semester 5)			
FNT-G-DSE-A-	COMMUNITY		4
5-1-Th	NUTRITION		CREDITS
SL No.	Chapters	Teacher's	Credit

		name	Points
1.	Concept and types of	Dr. Sangita	2
	Community. Concept of	Manna	
	community nutrition		
2.	Nutritional Assessment:	Dr. Sangita	3
	Meaning, need, objectives and	Manna	
	importance. A brief idea on		
	methods of nutritional		
	assessment.		
3.	Elementary idea of health	Dr. Sangita	2
	agencies - FAO, WHO, ICMR,	Manna	
	ICDS, ICAR, CSIR, ANP,		
	VHAI, NIN and CFTRI. Role of		
	voluntary health organisation in		
	the improvement of		
	Community health.		
4.	Nutritional Intervention	Dr. Sangita	3
	programmes to combat	Manna	
	malnutrition. Concept of food		
	fortification and food		
	enrichment.		
5.	Nutrition Education: Definition,	Dr. Sangita	3
	objectives of nutrition education.	Manna	
	Methods of imparting		
	nutrition education.		
FNT-G-DSE-A-	COMMUNITY		2 Credits
5-1-P	NUTRITION		
	(PRACTICAL)		
1.	Preparation of homemade ORS.	Dr. Sangita	2
		Manna	

2.	Preparation of weaning foods for	Dr. Sangita	2
	infants.	Manna	
3.	Preparation of low cost and	Dr. Sangita	3
	medium cost school tiffin	Manna	
4.	Diet survey by 24 hours recall	Dr. Sangita	2
	method	Manna	

LESSON PLAN 2023 (JAN - JUN)					
	DSE (Semester 5)				
FNT-G-DSE-	PUBLIC HEALTH		4		
A-5-2-Th			CREDITS		
SL No.	Chapters	Teacher's name	Credit Points		
1.	Concept of health and community health. Factors affecting Community health				
2.	Maternal and Child mortality: Definitions and causes, Role of health workers in the improvement of maternal and child health.				
3.	Immunization: Importance and Immunization schedule for children and adults.				
4.	General idea about the contamination of food (Chemical and microbial)-Sources and transmission, Elementary ideas about food toxins, aflatoxin & food toxicology				

	with	
	reference to Lead, Cadmium & Zinc.	
5.	Contamination of water and prevention	
	of contamination, different methods of	
	water	
	purification, water –borne diseases,	
	elementary idea of microbiology of	
	water-borne	
	pathogens, diarrhoea, dysentery,	
	typhoid, hepatitis, preventive measures	
	and dietary	
	management of such diseases.	
FNT-G-DSE-	PUBLIC	2 Credits
A-5-2-P	HEALTH(PRACTICAL)	
1.	Calculation of BMI of an individual and	
	interpretation of result.	
2.	Growth charts - plotting of growth	
	charts for growth monitoring	
3.	Formulation and demonstration of	
	nutrition education tools such as charts,	
	posters, models related to health and	
	nutrition education.	

DISCIPLINE SPECIFIC ELECTIVE (DSE) SYLLABUS

(DSE-B (Opt any one in Semester-5)

LESSON PLAN 2023 (JAN - JUN)				
	DSE (Semester 5)			
FNT-G- DSE-B-6-	CLINICAL NUTRITION		4 CREDITS	
1-Th SL No.	Chapters	Teacher's name	Credit Points	
1.	Definition of Dietetics, dietitian, Goals of Diet Therapy			
2.	Basic concepts of Diet Therapy: Therapeutic adaptations of the normal diet. Routine hospital diets –Regular, soft, full fluid, clear fluid diet. Specially modified therapeutic diets			
3.	Obesity and underweight: Causes, risk factors, dietary and general management of overweight and underweight.			
4.	Diarrhoea,ConstipationandJaundice:Causes, symptoms and dietary management.			
5.	Anaemia: Definition, causes, classification,			

	and dietary management of Nutritional	
	anaemia.	
6.	Hypertension, Atherosclerosis and Diabetes	
	mellitus: Definition, Causes, Types, risk	
	factors, Signs, Symptoms and dietary	
	Management.	
7.	Fever: Definition, causes, types, symptoms	
	and dietary management.	
FNT-G-	CLINICAL	2
DSE-B-6-	NUTRITION(PRACTICAL)	Credits
1-P:		
1.	1. Planning and preparation of Therapeutic	
	Diets for the following diseases:	
	i) Diabetes mellitus	
	ii) Hepatitis	
	iii) Hypertensi	
	iv)Obesity	

LESSON PLAN 2023 (JAN - JUN)					
	DSE (Semester 5)				
FNT-G-	FOOD SAFETY AND QUALITY		4		
DSE-B-6-2-	CONTROL		CREDITS		
Th					
SL No.	Chapters	Teacher's	Credit		
		name	Points		
1.	The relationship of microorganisms to				
	sanitation, Effects of microorganisms on				
	food degradation and food-borne illnesses.				
2.	Importance of personal hygiene of food				

	handlers: Habits, clothes, illness, education	
	of food handlers in handling and serving	
	food. Concept of food contamination	
3.		
	Food Safety: Definition and factors	
	affecting food safety, safety of left over	
	foods.	
	Control of Food spoilage	
4.	Food Adulteration: Definition, reasons and	
	types. Adulterants in common food items	
5.	Food Laws and Standards: i) Codex	
	Alimentations ii) Prevention of Food	
	Adulteration (PFA) Act iii) Agmark iv)	
	Fruit Products Order (FPO) v) Meat	
	Products Order (MPO) vi) Bureau of	
	Indian Standards (BIS) vii)Food Standards	
	and Safety Authority of India(FSSAI)	
FNT-G-	FOOD SAFETY AND QUALITY	2
DSE-B-6-2-	CONTROL(PRACTICAL)	Credits
Р		
1.	1. Detection of common adulterant in food:	
	i) Khesari flour in besan	
	ii) Vanaspati in Ghee/Butter.	
	iii) Dried papaya seeds in black pepper	
	iv) Metanil yellow in turmeric or coloured	
	sweet products.	
	v) Artificially foreign matter in tea	
	(dust/leaves).	

SKILL ENHANCEMENT COURSE(SEC)

SEC-A (Opt any one either in semester-3 or in Semester-5)

LESSON PLAN 2023

SEC (Semester III/V)			
FNT-G-	FOOD PRESERVATION		2 Credits
SEC- A-			
3/5-1-Th			
SL NO	Chapters	Teacher's	Credit
		name	Points
1.	Elementary idea on food preservation:		
	principles and different methods –		
	drying, freezing, frying, canning etc.		
2.	Methods of preparation and packaging of		
	jam, jelly, chilli sauce, tomato ketchup,		
	squash, pickles etc		
FNT-G-	NUTRITION AND FITNESS		2 Credits
SEC-A-			
3/5-2-Th:			
1.	Understanding Fitness: Definition of	Dr. Sangita	2
	fitness, health and related terms.	Manna	
	Assessment of		
	fitness, Approaches for keeping fit.		
2.	Importance and benefits of physical	Dr. Sangita	3
	activity: Physical Activity – frequency,	Manna	
	intensity, time and type with examples		
	Physical Activity, physical activity		
	guidelines and physical activity pyramid.		
3.	Importance of nutrition Role of nutrition	Dr. Sangita	3
	in fitness, Nutritional guidelines for	Manna	
	health		
	and fitness, Nutritional supplements.		
4.	Importance of diet and exercise for	Dr. Sangita	3

	weight management	Manna			
	LESSON PLAN 2023				
	SEC (Semester IV/VI				
SEC	C-B (Opt any one either in semester-	-4 or in Semeste	er-6		
FNT-G-	GERIATRIC NUTRITION		2 Credits		
SEC-B-					
4/6-1-Th					
SL NO	Chapters	Teacher's name	Credit		
			Points		
1.	Definition of ageing, senescence, old age	Dr. Sangita	3		
	or aged people, gerontology, geriatrics,	Manna			
	and Geriatric				
	nutrition.				
2.	Physiological changes during old age.	Dr. Sangita	3		
		Manna			
3.	Nutritional requirements and general	Dr. Sangita	3		
	dietary guidelines for elderly .	Manna			
4.	Major nutritional and health problems	Dr. Sangita	3		
	during old age.	Manna			
FNT-G-	BAKERY SCIENCE		2 Credits		
SEC-B-					
4/6-2-Th:					
1.	Introduction and scope of bakery science.				
2.	Common bakery terms				
3.	Flours: Constituents of flour, water				
	absorption power, gluten, grades of flour.				
4.	Raw materials required for bread and				
	cake making.				

5.	Role of flour, water , yeast, salt, sugar,	
	milk and fats in bakery.	
6.	Bread and cake making process.	
7.	Bread improver.	
8.	Knowledge of oven and baking	
	temperatures.	
9.	Preparation of basic cookies, biscuits and	
	pastries	