Semester/ Year (H/G)	Syllabus Module/ Unit TOPIC	No of Lecture s	Teachers	Distributi on
2 nd Semester	FNTACOR03T: FOOD CHEMISTRY(THEORY) 1. proteins & amino acids Proteins: Classification. FUNC, deficiency Protein structure and organization: primary, secondary, tertiary and quaternary structure. Amino acid classification. Physical and chemical properties of amino acid and protein. Biological value of proteins (BV), Net protein utilization (NPU) and Proteinefficiency ratio (PER). 2. carbohydrate chemistry Carbohydrates: classification- mono-, di- & polysaccharides; func, deficincy Stereoisomerism in carbohydrates. Physical and chemical properties of mono-, di- and polysaccharides;	5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DP DP	WITHIN APRIL
	Dietary fibre - definition; Fibre components - cellulose, hemicellulose, pectin substances, lignin. 3, Lipid chemistry Lipids: Classification- Fatty acids, triglycerides, phospholipids, Glycolipids, sterols and steroids. Eiconoids. Edible fats and oils - physical and chemical properties, Hydrogenation and importance of fats in the diet. Physical and chemical properties of saturated, monounsaturated, polyunsaturated fatly acids, trans fatty acids, phospholipids, cholesterols and	5 1 1 1	SS	WITHIN APRIL
	liposomes. Essential fatty acids. 4. water Definition of water in foods, water activity, phase transition of food containing water. Water activity and its influence on quality and stability of foods, methods for stabilization of food systems by control of water activity	3 1 1	DP	WITHIN MAY 1 ST WEEK

5. physiochemical principles			
Laws of thermodynamics,	6		
Enthalpy,		SS	JUNE
Entropy.	1		
Gibbs' free energy			
Thermodynamics and living system.			
Definition, explanation, importance and biological			
application of diffusion, osmosis, absorbtion,			
absorption,	2		
viscOsity and surface tension.	2		
Colloids: definition and importance.			
Acids and bases, Hydrogen ion concentration.	1		
Buffers.	1		
Oxidation reduction potential of bioactives (e.g. flavonoids, phenolic acids, quinols) and their	1		
applications in food systems	1		
applications in rood systems	1		
6. enzymes			
Enzmes: Definition and structure.	4	DP	MAY
Enzyme substrate interaction.			IVIA I
Enzyme kinetics,	1		TO
MichaelisMenten constant(Km).equation			TO
Enzyme inhibition.	2		HDIE
Factors regulating enzyme activities, Isoenzymes,			JUNE
Pro- enzymes, Ribozymes, Abzymes,			
Concept of Rate limiting enzymes	1		'=-
INTERNAL EXAMINER :=DP	1		
	1		
FNTACOR03P:	1		
FOOD CHEMISTRY, BIOPHYSICS AND			
BIOCHEMICAL PRINCIPLES(PRACTICAL)			
	1		
1. Qualitative tests for the identification of:	4		
Glucose, Galactose, Fructose, Sucrose, Lactose, Starch, Dextrin.			
Starch, Deathh.		DP	
2. Glucose estimation in blood .	2		
			WITH
3. Qualitative tests for the identification of -	2		IN
Albumin, Gelatin, Peptone, urea, uric acid.			JUNE
4. Protein estimation by Biuret and Lowry	2		
methods.			
	_		
5. Estimation of urea and uric acid in blood.	2		
6. Determination of acid value of oils by titrimetric	2		
method.			
7. Determination of osmotic pressure of colloidal	2		
solutions.			
		•	

8. Determination of specific gravity of liquid (fruit juice, blood). INTERNAL EXAMINER: - DP FNTACORO4T: PHYSIOLOGY IN NUTRITION (THEORY) 1. physiology of excitable cells Different types of muscles and their structures Mechanism of skeletal muscle contraction and relaxation, Muscle energetic, Isometric and isotonic muscle contraction. Structure of nerves. Nerve impulse and its conduction. Synapse and Neuromuscular junctions. 1				
contraction. Structure of nerves. Nerve impulse and its conduction. Synapse and Neuromuscular junctions. Synaptic transmission. Neutrotrophins 2. nervous system Brief anatomy of Brain and spinal cord. Central and Peripheral nervous system. Reflex action and Reflex arc. Outline of functions of cerebrum, cerebellum, hypothalamus. Autonomic nervous system: Sympathetic and parasympathetic nervous system. Sensory physiology: Sensory Receptors as biotransducers. Brief outline of the special senses. Structure and functions of photoreceptors in eye and hair cells in cochlea 3. reproductive system Structure of ovary, fallopian tubule and uterus. Oogenesis and ovulation. Characteristics of photoreceptors and uterus. Oogenesis and ovulation.	juice, blood). INTERNAL EXAMINER :- DP FNTACOR04T: PHYSIOLOGY IN NUTRITION (THEORY) 1. physiology of excitable cells Different types of muscles and their structures Mechanism of skeletal muscle contraction and	10		MAY 2 ND
Nerve impulse and its conduction. Synapse and Neuromuscular junctions. Synaptic transmission. Neutrotrophins 2. nervous system Brief anatomy of Brain and spinal cord. Central and Peripheral nervous system. Reflex action and Reflex arc. Outline of functions of cerebrum, cerebellum, hypothalamus. Autonomic nervous system: Sympathetic and parasympathetic nervous system. Sensory physiology: Sensory Receptors as biotransducers. Brief outline of the special senses. Structure and functions of photoreceptors in eye and hair cells in cochlea 3. reproductive system Structure of ovary, fallopian tubule and uterus. Oogenesis and ovulation. Cheese decire and instructions.		2		
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Brief anatomy of Brain and spinal cord. Central and Peripheral nervous system. Reflex action and Reflex arc. Outline of functions of cerebrum, cerebellum, hypothalamus. Autonomic nervous system: Sympathetic and parasympathetic nervous system. Sensory physiology: Sensory Receptors as biotransducers. Brief outline of the special senses. Structure and functions of photoreceptors in eye and hair cells in cochlea 3. reproductive system Structure of ovary, fallopian tubule and uterus. Oogenesis and ovulation. Share of the special sense of the sp	Neutrotrophins			
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3 3. reproductive system Structure of ovary, fallopian tubule and uterus. Oogenesis and ovulation. Charges device system 12	Brief outline of the special senses.	1		
Structure of ovary, fallopian tubule and uterus. Oogenesis and ovulation. Changes device were truel scale.		3		
Oogenesis and ovulation.	3.reproductive system		MS	MAY
Changes during many trust and	Structure of ovary, fallopian tubule and uterus.	12		
Changes during menstrual cycle, 2	Oogenesis and ovulation.	1		
	Changes during menstrual cycle,	2		

Hormonal regulation of menstrual cycle and menopause	2		
Fertilisation and implantation of blastocysts, Placenta.	2		
Hormonal control of pregnancy, parturition, lactation,	2		
Structure of testis, prostrate and seminal vesicle.	1		
spermatogenesis and its hormonal regulation.	2		
4.endocrine system	12		
Structure, hormones and functions of pituitary,	2 2		
thyroid,			
parathyroid,	2	GC	WITHIN
adrenal gland	2		JUNE
and pancreas.	2		
Hypothalamus as an endocrine gland.	2		
Gastrointestinal hormones.			
Growth factors. INTERNAL EXAMINER :- GC FNTACOR04P: PHYSIOLOGY IN NUTRITION(PRACTICAL)			
1. Test for Visual acuity, Colour vision.	4		
2. Identification with reasons of histological slides (Lung, Liver, Kidney, Small intestine, Stomach, Thyroid, Adrenal, Pancreas, Testis, Ovary and Muscle of mammals).	4	M.SETH & MS	WITHIN JUNE
3. Qualitative determination of glucose in blood or urine.	2		
4. Total count (TC) and Differential count (DC)	4		
INTERNAL EXAMINER:- MS			

4 th Semester	FNTACOR08T: community nutrition(THEORY) 1.Concept on Community Concept of Community, types of Community,	2	SS	APRIL
	Factors affecting health of the Community. 2.Nutritional Assessment and Surveillance Nutritional Assessment Surveillance: Meaning, need, objectives and	4 2 2	SS	June 1 st week
	importance. 3. Assessment methods for human Nutritional assessment of human: Clinical findings, nutritional anthropometry, biochemical tests,	5 1 2	SS	JUNE 1 ST WEEK
	biochemical tests, biophysical methods. 4. Diet survey	1		WITHIN
	Diet survey: Need and importance, methods of dietary survey, Interpretation - concept of consumption unit, individual and total distribution of food in family, adequacy of diet in respect to RDA,	10 3	SS	JUNE
	concept of family food security.	3		
	5. Clinical Signs Clinical Signs: Need and importance, identifying signs of PEM,	10 1 2	SP	JUNE 1 ST WEEK
	vitamin A deficiency and	2		
	iodine deficiency, Interpretation of descriptive list of clinical signs. Nutritional anaemia.	2		
	Rickets,	2		
	B-Complex deficiencies. 6. Nutritional anthropometry Nutritional anthropometry:Need and importance,	1		

standard for reference, techniques of measuring height, weight, head, chest and arm circumference, interpretation of these measurements.	4	SS	MID JUNE
Growth & Development; Body Composition: Changes through	→	DP	JUNE END
lifecycle Use of growth charts.	•	SS	
7. Agencies and programmes	10	DP	
International, national, regional agencies and organisations.	4		JUNE
National nutritional intervention programmes to combat malnutrition:ICDS, Midday meal,	3		END
Special nutrition program,			
National programs for prevention of anaemia,	3		
Vitamin A deficiency control programme Iodine deficiency disorders.			
INTERNAL EXAMINER:- SS FNTACOR08P: COMMUNITY NUTRITION (PRACTICAL) 1. Anthropometric Measurement of infant - Height, weight, circumference of chest, mid - upper arm circumference, precautions to be taken. 2. Comparison with norms and interpretation of the nutritional assessment data and its significance. Weight for age, height for age, weight for height, Z scores, body Mass Index (BMI) Waist - Hip Ratio (WHR). 3. Growth charts - plotting of growth charts, growth monitoring and promotion. 4. Clinical assessment and signs of nutrient deficiencies specially PEM (Kwashiorkor, marasmus) I vitamin A deficiencies, Anaemia, Rickets, B-Complex deficiencies. 5. 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 INTERNAL EXAMINER: SS	32 CLASS	SS	WITHIN JUNE

	1		,
FNTACOR09T: EPIDEMIOLOGY AND PUBLIC HEALTH(THEORY)	4		
1. Introduction on Health Health and	1	MS	2 ND WEEK
its importance: Definition of health (WHO), Dimension of health,	1		OF
Positive health.	1		APRIL
Determinants of health.	1		
Concept of disease and its causations.	2		
	2		
2. Data of Community health Secondary sources of community health data: Indicators of health. Secondary sources of data from NFHS, Vital Statistics, Census of India, ICMR.	10	MS	4TH WEE K OF APRI L
3.Epidemiology		MS	
Definition of epidemiology,			
components and aims of epidemiology,			JUNE END
basic measurements in epidemiology.			
Demography and family planning.			
Brief idea about epidemics,			
epidemiological methods: analytical epidemiology (case control and cohort study);	*		
Experimental epidemiology.			
Infectious diseases in epidemiology.			
Dynamics of disease transmission,	12		
modes of transmission of disease.			

T	ı		
4.Diseases: Prevention and control			
Epidemiology of diseases,			WITHIN
prevention and control [(Nutritionally related disease:- Hyperlipidaemia,			APRIL
clotting disorder, scurvy, beriberi, goiter);			
(vector borne disease: - HIV/AIDS, malaria, poliomyelitis, dengue, tuberculosis, mumps measles rubella, chicken pox, pertussis, chikungunya);		DM	
(food borne disease:- salmonellosis, shigellosis,		MS	
Typhoid , botulism, amoebiasis, rotavirus, E.coli food poisoning, staphylococcal food poisoning);			
(water borne disease: arsenic toxicity, cholera);			
(non communicable disease:- obesity, diabetes, coronary heart disease)			
5.Public health Definition of public health, relation between health and nutrition.	3	DM	4TH week MAY

6. Immunization				
Immunization: definition. immunity, immunizing agents: its typ national immunization importance, immunization in adults hazards of immunization health advice to foreign tr	es, schedule- its and travellers,	2	–MS	MAY
7. Community health care Health care of the community health care delivery, health care system, Primary health care in Ind Indian public health subcenters, PHCs, cor centers. Hospital waste manageme	nity, ia, standards for mmunity health	2	MS	JUNE 1 ST WEEK
8. Community water Community water importance of water to sources of water. Concept of water pollution Purification of water in sm Drinking water handling ar safe drinking water	management: the community, n. all and large scale.	62222	DM	WITHIN JUNE
9.Community waste Community waste manage methods of disposal of disposal and treatment.	* *	4	DM	WITHIN JUNE
10. Air pollution Air pollution: source of air of air pollution. Indoor air pollution. Monitoring of air pollution Effects, prevention and corpollution.		4	DM	WITHIN JUNE
INTERNAL EXAMINER :- DI FNTACOR09P: EPIDEMIOL HEALTH(PRACTICAL)				

.1. Preparation of 3 audio visual aids like charts, posters, models related to health and nutrition education.		GC	WITHIN JUNE
2. Formulation and preparation of low cost and medium cost nutritious/ supplementary recipe.			
3. Field visit (health centre, immunization centre, ICDS, MCH centre, NGOs etc.)			
2 PROJECT SUBMISSION BY STUDENTS,			
FNTACOR10T: DIET THERAPY FOR LIFE STYLE DISORDERS(THEORY)			
1. Lifestyle disorder Introduction, types, aetiology, management.	4	GC	APRIL 2 ND WEEK
2. Diabetes Mellitus Definition, Etiology, Classification, long and short term complications, Diagnosis, Management (Insulin Therapy, Dietary Management with food exchange list, Exercise, Pharmacological), Role of artificial sweeteners. Overview of special conditions: Diabetes in Childhood, Pregnancy, Role of Nutrition Education, Role of Nutrition in Prevention.	8	DP	MID APRI L
3. Cardiovascular diseases Prevalence, incidence, mortality with special reference to Indian situation. Patho - physiology and Management of Atherosclerosis,	8	GC	WITHIN APRIL
Endothelial dysfunction,			
Thrombosis,			
Angina Pectoris,			
Congestive cardiac failure,			
stroke,			
MI.			
Hyper-lipidemia- classification, diagnosis and			

nutritional management,		

Hypertension: Octiology, Risk factors, Pathophysiology, Management 4. Weight management Obesity and Overweight: Body weight components, Classification of obesity, (gynoid/android and Regulation hypertrophy/hypersplasia, Etiology and assessment of obesity and prevalence in Indian situation, Complications of obesity. Management: Medical (Pharmacological), Nutrition and lifestyle, Surgical, Behavioural Juvenile Obesity. Underweight: Etiology , Diet management. Eating disorders: (Anorexia Nervosa and Bulimia), Management (Medical, Nutritional eare). Psychological support and Prevention. 5. Nutritional management of metabolic disease: Gout: Role of proteins and purine, Etiology, Symptoms and complications, Distary management, Inhorn errors of metabolism: PKU, MSUD, Glycogen storage disorders, Galactosemia 6. Nutrition and respiratory health Physiology and functions of the respiratory system, Nutritional management in cancer (Oral and colon) Cancer: Pathogenesis and progression of cancer, Role of Natrients and food additives in cancer therapies and their nutritional implications, Symptoms, Diagnosis, Cancer therapies: Nutritional implications, Dietary management 8. Arthritis and Osteoporosis Etiology dietary treatment in arthritis and osteoporosis.				
in Indian situation, Complications of obesity. Management: Medical (Pharmacological), Nutrition and lifestyle, Surgical, Behavioural Juvenile Obesity. Underweight: Etiology, Diet management, Eating disorders: (Anorexia Nervosa and Bulimia), Management (Medical, Nutritional care), Psychological support and Prevention. 5.Nutritional management of metabolic disease: Gout: Role of proteins and purine, Etiology, Symptoms and complications, Dietary management, Inborn errors of metabolism: PKU, MSUD, Glycogen storage disorders, Galactosemia 6.Nutrition and respiratory health Physiology and functions of the respiratory system, Nutritional management of Asthma 7.Nutritional management of Asthma 7.Nutritional management in cancer (Oral and colon) Cancer: Pathogenesis and progression of cancer, Role of Nutrients and food additives in cancer therapies and their mutritional implications, Symptoms, Diagnosis, Cancer therapies: Nutritional implications, Dietary management and colony of the respiratory management and colony of the respiratory system, Surtitional implications, Symptoms, Diagnosis, Cancer therapies: Nutritional implications, Dietary management and colony of the respiratory management and colony of the respiratory management and colony of the respiratory system, Surtitional minications, Dietary management and colony of the respiratory management and colony of the respiratory system, Surtitional implications, Symptoms, Diagnosis, Cancer therapies: Nutritional minications, Dietary management and colony details and Osteoporosis and progression of cancer, Role of Nutrients and food additives in cancer therapies and progression of cancer therapies and progression of cancer and colony details and Osteoporosis and Progression of cancer and colony details and Osteoporosis and Progression of cancer and colony details and Osteoporosis and Progression of cancer and colony details and Osteoporosis and Progression of cancer and colony details and Osteoporosis and Progression of cancer and colony details and Osteo	physiology, Management 4.Weight management Obesity and Overweight: Body weight components, Classification of obesity,(gynoid/android and Regulation	8	DP	
Management: Medical (Pharmacological), Nutrition and lifestyle, Surgical, Behavioural Juvenile Obesity. Underweight: Etiology , Diet management, Eating disorders: (Anorexia Nervosa and Bulimia), Management (Medical,Nutritional care), Psychological support and Prevention. 5.Nutritional management of metabolic disease: Gout : Role of proteins and purine, Etiology, Symptoms and complications, Dietary management,Inborn errors of metabolism: PKU, MSUD, Glycogen storage disorders, Galactosemia 6.Nutrition and respiratory health Physiology and functions of the respiratory system, Nutritional management in cancer (Oral and colon) Cancer: Pathogenesis and progression of cancer, Role of Nutrients and food additives in cancer therapies and their nutritional implications, Symptoms, Diagnosis, Cancer therapies: Nutritional implications, Dietary management 8.Arthritis and Osteoporosis Etiology dietary 2 DP WITHIN JUNE				
Nutrition and lifestyle, Surgical, Behavioural Juvenile Obesity. Underweight: Etiology , Diet management, Eating disorders: (Anorexia Nervosa and Bulimia), Management (Medical, Nutritional care), Psychological support and Prevention. 5.Nutritional management of metabolic disease: Gout : Role of proteins and purine, Etiology, Symptoms and complications, Dietary management, Inborn errors of metabolism: PKU, MSUD, Glycogen storage disorders, Galactosemia 6.Nutrition and respiratory health Physiology and functions of the respiratory system, Nutritional management of Asthma 7.Nutritional management in cancer (Oral and colon) Cancer: Pathogenesis and progression of cancer, Role of Nutrients and food additives in cancer therapies and their nutritional implications, Symptoms, Diagnosis, Cancer therapies: Nutritional implications, Dietary management 8.Arthritis and Osteoporosis Etiology dietary 4 GC WITHIN JUNE	Complications of obesity.			
Etiology , Diet management, Eating disorders: (Anorexia Nervosa and Bulimia), Management (Medical, Nutritional care), Psychological support and Prevention. 5.Nutritional management of metabolic disease: Gout : Role of proteins and purine, Etiology, Symptoms and complications, Dietary management, Inborn errors of metabolism: PKU, MSUD, Glycogen storage disorders, Galactosemia 6.Nutrition and respiratory health Physiology and functions of the respiratory system, Nutritional management of Asthma 7.Nutritional management in cancer (Oral and colon) Cancer: Pathogenesis and progression of cancer, Role of Nutrients and food additives in cancer therapies and their nutritional implications, Symptoms, Diagnosis, Cancer therapies: Nutritional implications, Dietary management 8.Arthritis and Osteoporosis Etiology dietary 2. DP WITHIN WITHIN				
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Nervosa and Bulimia), Management (Medical, Nutritional care), Psychological support and Prevention. 5.Nutritional management of metabolic disease: Gout : Role of proteins and purine, Etiology, Symptoms and complications, Dietary management, Inborn errors of metabolism: PKU, MSUD, Glycogen storage disorders, Galactosemia 6. Nutrition and respiratory health Physiology and functions of the respiratory system, Nutritional management of Asthma 7. Nutritional management in cancer (Oral and colon) Cancer: Pathogenesis and progression of cancer, Role of Nutrients and food additives in cancer therapies and their nutritional implications, Symptoms, Diagnosis, Cancer therapies: Nutritional implications, Dietary management stology dietary 8. Arthritis and Osteoporosis Etiology dietary	Etiology,			
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Gout : Role of proteins and purine, Etiology, Symptoms and complications, Dietary management, Inborn errors of metabolism: PKU, MSUD, Glycogen storage disorders, Galactosemia 6. Nutrition and respiratory health Physiology and functions of the respiratory system, Nutritional management of Asthma 7. Nutritional management in cancer (Oral and colon) Cancer: Pathogenesis and progression of cancer, Role of Nutrients and food additives in cancer therapies and their nutritional implications, Symptoms, Diagnosis, Cancer therapies: Nutritional implications, Dietary management 8. Arthritis and Osteoporosis Etiology dietary 6 GC JUNE GC WITHIN DP GC WITHIN JUNE	5.Nutritional management of metabolic disease:			WITHIN
PKU, MSUD, Glycogen storage disorders, Galactosemia 6. Nutrition and respiratory health Physiology and functions of the respiratory system, Nutritional management of Asthma 7. Nutritional management in cancer (Oral and colon) Cancer: Pathogenesis and progression of cancer, Role of Nutrients and food additives in cancer therapies and their nutritional implications, Symptoms, Diagnosis, Cancer therapies: Nutritional implications, Dietary management 8. Arthritis and Osteoporosis Etiology dietary PDP WITHIN WITHIN WITHIN WITHIN	: Role of proteins and purine, Etiology, Symptoms	6	GC	
Physiology and functions of the respiratory system, Nutritional management of Asthma 7. Nutritional management in cancer (Oral and colon) Cancer: Pathogenesis and progression of cancer, Role of Nutrients and food additives in cancer therapies and their nutritional implications, Symptoms, Diagnosis, Cancer therapies: Nutritional implications, Dietary management 8. Arthritis and Osteoporosis Etiology dietary 4	PKU, MSUD, Glycogen storage disorders,			
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colon) Cancer: Pathogenesis and progression of cancer, Role of Nutrients and food additives in cancer therapies and their nutritional implications, Symptoms, Diagnosis, Cancer therapies: Nutritional implications, Dietary management 8. Arthritis and Osteoporosis Etiology dietary 4 GC WITHIN WITHIN		4	DP	
Nutritional implications, Dietary management 8. Arthritis and Osteoporosis Etiology dietary WITHIN	colon) Cancer: Pathogenesis and progression of cancer, Role of Nutrients and food additives in cancer therapies and their nutritional implications,	4	GC	
	Nutritional implications, Dietary management 8. Arthritis and Osteoporosis Etiology dietary	2	DP	

	INTERNAL EXAMINER :- GC			
	FNTACOR10P: DIET THERAPY FOR LIFE STYLE DISORDERS(PRACTICAL)			
	Planning and preparation of Diets for the following diseases: i)Obesity and Underweight SP ii) Diabetes mellitus SP iii) Hypertension and Atherosclerosis GC iv) Overweight and Underweight SP v) Gout GC vi) Osteoporosis GC		SP, GC	WITHIN JUNE
	INTERNAL EXAMINER :- SP FNTGCOR02T: HUMAN BODY AND NUTRITION (THEORY)			
	Animal cell Animal cell: definition, structure and functions of different parts. Organelle	4	MS	2ND week of APRIL
	Blood and body Fluids: Blood, composition, blood corpuscles, functions, blood groups and its importance in transfusion, hazards of mismatch blood transfusion. Rh factor, blood coagulation. Lymph: Composition and function.	4	GC	3RD WEEK OF APRIL
2 ND SEM GENERA L	Cardiovascular and Respiratory system Heart: Junctionl tissues and functions. Cardiac cycle, cardiac output, blood pressure and its regulation. Mechanism of respiration,	6	MS	MAY
	Respiratory centre. Respiratory regulation.		M.SETH	
	4. Digestive system and Digestion Digestive system: Structures involved in digestive system (mouth, oesophagus, stomach, small intestine, large intestine, liver pancreas, gallbladder), and their functions,	4	GC	WITHIN JUNE
	composition of different digestive juices & their functions.		MS	

5. Excitable cells Brief description about the mechanism of muscular contraction. Neuro-muscular transmission. 6. Regulatory systems General idea about the Hormones in human body and their significance on nutrition. Brief idea about brain and sinal cord. somatic and autonomic control of body INTERNAL EXAMINER:-GC FNTGCOR02P: HUMAN BODY AND NUTRITION (PRACTICAL) 1. Determination of pulse rate in Resting condition and after exercise (30 beats/10 beats method) 2. Determination of blood pressure by Sphygmomanometer (Auscultatory method). 3. Identification of permanent sections (Blood cells, Stomach, Small intestine, large intestine, Liver, pancreas). 4. Determination of Bleeding Time (BT) and Clotting Time (CT). 5. Detection of Blood group (Slide method). FNTGCOR04T:DIETETICS (THEORY) TOTAL HOURS: 60 CREDITS: 4 1. Concept on Diet therapy Definition and objective of dietetics, Definition-diet therapy, Dieticians; principles and classification of the therapeutic diet. Responsibility of dieticians. 2. RDA, Meal planning and Dietary guidelines RDA- Definition, Nutritional requirements (RDA), Principles and objectives of meal planning,	Digestion and absorption of carbohydrate, protein and fat.	8	MS	WITHIN JUNE
6. Regulatory systems General idea about the Hormones in human body and their significance on nutrition. Brief idea about brain and sinal cord. somatic and autonomic control of body INTERNAL EXAMINER: GC FNTGCOR02P: HUMAN BODY AND NUTRITION (PRACTICAL) 1. Determination of pulse rate in Resting condition and after exercise (30 beats/10 beats method) 2. Determination of blood pressure by Sphygmomanometer (Auscultatory method). 3. Identification of permanent sections (Blood cells, Stomach, Small intestine, large intestine, Liver, pancreas). 4. Determination of Bleeding Time (BT) and Clotting Time (CT). 5. Detection of Blood group (Slide method). FNTGCOR04T: DIETETICS (THEORY) TOTAL HOURS: 60 CREDITS: 4 1. Concept on Diet therapy Definition and objective of dietetics, Definition-diet therapy, Dieticians: principles and classification of the therapeutic diet. Responsibility of dieticians. 2. RDA, Meal planning and Dietary guidelines RDA- Definition, Nutritional requirements (RDA),	Brief description about the mechanism of muscular	4	M.SETH	
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Definition and objective of dietetics, Definition-diet therapy, Dieticians; principles and classification of the therapeutic diet. Responsibility of dieticians. 2. RDA, Meal planning and Dietary guidelines RDA- Definition, Nutritional requirements (RDA), 6 GC WITHIN MAY	TOTAL HOURS: 60 CREDITS: 4 1. Concept on Diet therapy	4	MS	
guidelines RDA- Definition, Nutritional requirements (RDA), MAY WITHIN MAY	diet therapy, Dieticians; principles and classification of the therapeutic diet.			2^{ND}
RDA- Definition, Nutritional requirements (RDA), MAY		6	GC	WITHIN
Principles and objectives of meal planning,		•		
	Principles and objectives of meal planning,			

	Dietary guidelines of pregnant & lactating women,			
	infants(Weaning, supplementary food),			
4 TH SEM GENERA	pre-school children & school children (School lunch programme), adult males and females,			
L	old age people.			
	3. Hospital diet Hospital diet: regular, soft, fluid, s pecial feeding methods- advantages, disadvantages	4	MS	WITHIN JUNE 1 ST WEEK
	4. Dietary management of different diseases Dietary management in Gastro intestinal diseases (diarrhoea,			WITHIN
	constipation,	8	MS	JUNE
	gastritis,			
	peptic ulcer &			
	flatulence),			
	Fever (short term			
	Diabetes mellitus (Type II ,			
	Heart diseases (hypertension, a			
	therosclerosis,			WITHIN
	hyperlipidaemia),		CC	JUNE
	Liver diseases (infective hepatitis,		GC	
	cirrhosis of liver),			
	Gout,			
	Obesity (including assessment indices),			
	Underweight.		1 10	
	5. Food Allergy Food allergy- Definition, sources, symptoms, diagnosis, treatment, food intolerance.	4	MS	WITHIN JUNE
	INTERNAL EXAMINER:- MS			
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Pe Fe Hy Di He	FNTGCOR04P:DIETETICS(PRACTICAL) TOTAL HOURS: 60 CREDITS: 2 1. Planning and Preparation of fluid diet, oft and solid diet. MS 2. Planning & preparation of a day's diet for the following conditions: eptic ulcer GC ever, GC ever, GC spertension, GC stabetes mellitus (Type II NIDDM), MS epatitis, MS Obesity. MS	GC MS	Within JUNE
1. Int cli ro	troduction to clinical nutrition, inical conditions requiring dietary intervention, ole of dietitian in hospitals/clinics, GC aff training, RD –requirements, procedure, nctioning. DP	GC	WITHIN JUNE
. 2 Go of (es IF.	Practical 1. Visit to an ongoing program in ICDS: one rural, one urban. (eg. mahilamandal meeting or nutrition week celebration 2. Visit to a health centre (ANC clinic run by overnment health department and observe quality counseling imparted to pregnant women specially awareness of anemia, importance of FA). 1. To visit an NGO either rural or urban and pregram implemented for the serve one intervention program implemented for the serve of the ser	SS	
59 the che	oserve one intervention program implemented for women, school children or adolescence (For all e above observation appropriate observation neck lists will be made and used) . Visit to old age home/Nutrition Rehabilitation centre/slum area and prepare report on nutritional		Within JULY

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status /health concern(at least 10 done)	ase studies to be		
5. Internship in any hospital/nursi study of diseases	ng home -case		
6. Preparation of visual aids indic problems related to nutrition – Ch models etc. and demonstration			
3 PROJECTS HAS TO BE SUE BY STUDENTS	MITTED_		
INTERNAL EXAMINER GC			
SEMESTER 6 (HONOURS) FNTACOR13T: FOOD PROCES	SING AND		
FOOD TECHNOLOGY(THEORY		DM	MAY
1 Food Storage and Spoilage	•		
and microorganisms in th	. •		
different kinds of foods and	.		
and cereal products, vegeta fish and other sea foods, n			
products, eggs and poul			
products, canned foods. C	-		
food based on pH, Food			
intoxication, definition of perishable foods, semi perishable foods.	·		
shelf stable foods, Storage of	· ·		
of foods and such as cere			
products, vegetable and fruit			
sea foods, meat and meat			
and poultry, milk and produce canned foods.	cts, spices and		
carrica roous.			
2 Food preservation Definit	ion, objectives	DM	MAY-
and principles of food	preservation. 4		JUNE
Different methods of food Freezing and Refrigeration:	•		
refrigeration, cool storage			
definition, principle of fre	<u> </u>		
curve, changes occurring d			
types of freezing i.e. slow	<u> </u>		
freezing, introduction to the during thawing and its effect			
Thermal Processing- Commerc			
preservation methods: Steriliz			
commercial sterilization, Paste	•		
blanching.Drying and Dehydra	tion -		

	2025 2 4 Sem 0 Sem	
	Definition, drying as a means of	
	preservation, differences between sun	
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DP	JUNE
DP	JUNE
DM	JUNE
DP	JUNE
DM	WITHIN JUNE
ENTIRELY BY SS	WITHIN JUNE
	DP DM DP DM ENTIRELY

L		I	I	
	etection of Adulterants in common Food uffs like Milk, Oil, Laddu, Turmeric etc.			
<u>1 F</u>	NTERNAL EXAMINER :- SS PROJECT WILL BE DONE BY CUDENTS			
A 1 ol Ty	NTACOR14T: RESEARCH METHODOLOGY IND BIOSTATISTICS(THEORY) L. Research Methodology Meaning, bjectives and Significance of research. ypes of research, research approaches and cientific methods, Research process, riteria of good research.	6	DEBASHIS MAZUMDA R	WITHIN JUNE
id Se	Research problem Definition and dentification of a research problem, election of research problem. Technique avolved in Defining a Problem.	6	DEBASHIS MAZUMDA R	WITHIN JUNE
de re cc ep re ai	. Study design Meaning and needs of esign, important concepts relating to esearch design, variables, experimental and ontrol groups. (Use examples from pidemiology and clinical trials). Different esearch designs- exploratory, descriptive, nalytical and diagnostic (epidemiology and linical trials). Pilot studies. Qualitative vs uantitative research.	12	DM	WITHIN JUNE
pa di G H th m St di or in	. Sampling of data and analysis Variable, arameter, statistics. Frequency istribution. Cumulative frequency. Graphical presentation techniques including listogram, Bar chart, Pie chart along with the concepts of frequency polygon. Mean, median, mode, Standard Deviation and tandard Error of mean .Probability. Normal istribution. Student's t-distribution. Testing f hypothesis - Null hypothesis, errors of inference, levels of significance, Degrees of reedom.	12	SS	WITHIN JUNE
di	.Preparation of report a. Graphical and iagrammatic presentation. b. nterpretation of – Meaning of			

c. Inter Repo writir repor	pretation, Technique of interpretation, Precaution in interpretation- pretation of tables and figures. d. rt writing — Significance of report ng, Steps in writing report, Types of rts. RNAL EXAMINER:- DM AND SS	DEBASHIS MAZUMDA R	WITHIN JUNE
FNTA METI BIOS' 1. As media	COR14P: RESEARCH HODOLOGY AND TATISTICS(PRACTICAL) signment for calculation of mean, an, mode, standard deviation, standard of mean and students' 't' test with ded data.	SS	WITHIN JUNE
MANA	DSE04T: FOOD & BEVERAGE AGEMENT (THEORY) Introduction to Food Service	PS	
	Introduction to food service industry in India, factors contributing to the growth of food service industry, sectors of food service industry, food service operations, Kinds of food service establishments, environmental factors influencing food service operations, styles of food service. 2. Food Production & Menu	(COMMER CE)	WITHIN JUNE
	Planning Food production methods, food production process, cooking methods, Menu planning: Importance of menu, Factors affecting menu planning, Menu planning for different kinds of food service units, Food Purchase and Storage, Quantity Food production: Standardization of recipes, quantity food preparation - techniques, recipe adjustments and portion control, Hygiene and Sanitation	PS (COMMER CE)	
3.	Resources of food service establishments Food and beverage staff, organization structure, qualities of food service staff, training; food service equipment; food & beverage pricing, revenue control. Personnel Management,	PS (COMMER CE)	
	Recruitment, selection, induction,	PS(COMME	

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employee facilities& benefits, safety at work	RCE)	
INTERNAL EXAMINER PS		
INTERDEPARTMENTAL CLASS		
FNTADSE04P: FOOD & BEVERAGE MANAGEMENT (PRACTICAL) TOTAL HOURS: 60 CREDITS: 2 Planning of A Food Service Unit: Preliminary Planning, Survey of types of units, identifying clientele, menu, operations and delivery Planning the set up a) Identifying resources b) Developing Project plan c) Determining investments d) Project Proposal.	PS	
FOOD SERVICE UNIT VISIT AND PROJECT FOR MULATION		
INTERNAL EXAMINER : PS (COMMERCE)		

FNTADSE06T: NUTRITIONAL MANAGEMENT AND COUNSELLING (THEORY)			
1. Basics of diet counselling Diet Counselling-meaning, significance, process, types Goals of counselling, individuals, group and family counselling, Basic sequence in counselling, Materials needed for counselling –models, charts, posters, AV aids, Hand outs etc, Communication process in counselling and linguistics in clinical dietary practices,	4	SP	
			WITHIN JUNE

problemsin communication Role of Counsellor & Counselee, Techniques of obtaining relevant information- 24 Hour Dietary recall, List of food likes and dislikes, Lifestyle Dietician as a part of medical team and research team, Impact of counselling on health and disease of individuals – discussion of hospital case studies 2.Introduction on Psychology and counselling Introduction to psychology – Definition, Nature and Scope Attention and perception – Types of attention and factors influencing attention, principles of perceptual organization and abnormalities in perception learning and memory- Types of learning, Types of memory, Forgetting and its causes motivation and emotion- Types of motives, types of emotions, emotional expression, Personality- nature and definition , factors influencing personality, Psychoanalytic theory of	10	EXTENSION LECTURE	WITHIN JUNE 2 ND WEEK
personality Nature and goals of counselling Principles of counselling, Characteristics of a good counsellor, Ethical principles of counselling, Special areas of counselling: Educational, family, health, community and counselling of alcoholic, and drug addicts. 3. Counselling Skills Approaches to counselling — Psycho analytic approach, Behaviouristic, Humanistic approach, Pre — Helping phase: Rapport building skills, Attending and listening skills, Stage I skills: Empathy, respect, Genuineness and concreteness, Stage II skills: Advanced empathy, self disclosure, Immediacy and Confrontation. Stage III skills: Goal setting, Action plan Programme and Brainstorming	10	EXTENSION LECTURE	WITHIN JUNE
4. Diet Counselling at Hospital and Community Level Role of counselling in hospital, Role of counselling in community, Organizing health camps and patient feedback — at hospital level, Organizing health camps and patient feedback — at community level, Diet counselling for obese people, Diet counselling for Diabetics, Diet counselling for CVD, Diet counselling for	10	SP	WITHIN JUNE

mother and child care, Diet counselling for adolescent, Patient follow up / home visits, geriatric counselling with specific diseases like HIV/AIDS. INTERNAL EXAMINER:- SP FNTADSE06P: NUTRITIONAL MANAGEMENT AND COUNSELLING (PRACTICAL) CREDITS: 2 1. Organizing health camps and patient feedback – both at hospital level and community level 2. Diet counselling for mother and child care, adolescent, obese people, Diabetic patient CVD. 3. Patient follow up / home visits INTERNSHIP PROJECT INTERNAL EXAMINER:- MS 6 TH SEM G		MS AND SP	WITHIN JUNE
FNTGDSE04T- NUTRITIONAL BIOCHEMISTRY(THEORY)			
1. Carbohydrate Classes of carbohydrates, Properties and dietary importance of starch, sucrose, lactose, glucose and fructose. Metabolism: Glycolysis, Tricarboxylic acid (TCA) cycle, Gluconeogenesis, Glycogenesis, Glycogenolys 2. Protein Classes, properties, functions and secondary structure of protein (alpha helix, beta pleated sheet). Concept and definition: Complete and incomplete proteins, Biological value, Protein Efficiency Ratio (PER), Net Protein Utilisation (NPU), Essential and nonessential amino acids, Deamination, Transamination and Urea cycle.	8	DP	WITHIN MAY WITHIN MAY

fats, oils and fatty acid (PUFA, MUFA, SFA.		
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TFA), Concept of Beta - oxidation of fatty acids	8	MS	WITHIN JUNE
4. Enzyme Classification, properties and factors affecting enzyme activity. Brief idea on mechanism of enzyme action (Fischer Lock and key model).	6	DP	WITHIN JUNE
5. Water Definition of water in foods, Wateractivity and its influence on quality and stability of foods, phase transition of food containing water. INTERNAL EXAMINER:- DP	6	MS	WITHIN JUNE
FNTGDSE04P- NUTRITIONAL BIOCHEMISTRY(PRACTICAL) CREDITS: 2 1. Qualitative tests for the identification of: Glucose, Galactose, Fructose, Sucrose, Lactose, Starch, Dextrin. 2. Qualitative tests for the identification of - Albumin, Gelatin, Peptone, urea, uric acid. 3. Protein estimation by Biuret and Lowry methods. INTERNAL EXAMINER: - DP	12	ENTIRELY BY DP	WITHIN JUNE