Shri Rawatpura Sarkar University, Raipur



Examination Scheme & Syllabus

for

Bachelor of Science in Nutrition and Dietetics

Year – III

(Effective from the session: 2020-21)



FACULTY OF SCIENCE Shri Rawatpura Sarkar University, Raipur

Bachelor of Science In Nutrition and Dietetics

Year –III

Examination Scheme (Effective from the session: 2020-21)

S.N.	Course	Th/	Subject	Type	Teaching Hours/ Week			тс	Examination Scheme			Total	
5. N.	Code	Pr	Subject	Course	L	Т	Р		Theory		Practical		Marks
									EX	IN	EX	IN	
1	BSCND301	Th	Personnel Management	Core	4	-	-	4	70	30	-	-	100
2	BSCND302	Th	Community Nutrition	Core	4	-	-	4	70	30	-	-	100
3	BSCND303	Th	Advanced Dietetics	Core	4	-	-	4	70	30	-	-	100
4	BSCND304	Th	Dietetics And Counseling	Core	4	-	-	4	70	30	-	-	100
5	BSCND305P	Pr	Lab course V	Core	-	-	4	2	-	-	35	15	50
6	BSCND306P	Pr	Lab Course VI	Core	-	-	4	2	-	-	35	15	50
7	BSCND307P	Pr	Hospital Postings	Core	-	-	8	4	-	-	70	30	100
	Total Contact	Total Credit			24	Total Marks				600			



Course Title	Pe	Personnel Management								
Course Code	BS	BSCND301								
Course	L	Т	Р	ТС						
Credits	4	-	-	4						
Prerequisites	Fu	nda	men	tal kn	owledge of management.					
Course Objectives		• This course aims to help the realization of the organizational goals and the concept of human resource management.								
Course Contents	 UNIT I Organization and management: a) Definition and types of organization. b) Definition- functions and tools of management. c) Technique of effective management and its application to food preparation and science. UNIT II Food material management: a) Meaning, definition, and importance.b) Food selection, purchasing, receiving and storeroom management. c) Control in relation to the above operations (material planning, budgeting, material identification, modification and standardization, inventory control, store keeping, definition, objectives, functions, factors underlying successful store-keeping, duties and responsibilities of a storekeeper, purchasing, organization, principle, procedure, systems and quality control). UNIT III Personnel Management: Recruitment, selection and training of personalities, work standards, productivity, supervision, performance appraisal and motivation incentives for effective performances UNIT IV Labor policies and legislation: (Personnel policies related to salaries, other emoluments, allowances, leave, uniform and other prize benefit, laws and organization) UNIT V Laws affecting food service institution to study the following: (hospital, flight kitchen, hotel, restaurant, canteen, Industrial) - a. Organization b. Physical plan 									
Course Outcomes		1.			and support the development and communication of the tion's total compensation plan.					



FACULTY OF SCIENCE Bachelor of Science In Nutrition and Dietetics Year – III

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	2. Research and analyze information needs and apply current and emerging information technologies to support the human resources function.
Text Books	 Mohini Sethi & Surjeet Malhan, Catering Management - An Integrated Approach, New Age International Pvt. Ltd. Arun Monappa, Personnel Management, McGraw Hill Education.
Reference Books	 Fearn, D. Management system for the Hotel Catering & Allied Industries.

Course Title	Co	Community Nutrition							
Course Code	BS	BSCND302							
Course	L	Т	Р	ТС					
Credits	4	-	-	4					
Prerequisites	Fu	ndaı	nen	tal kn	owledge of basic nutrition and dietetics.				
Course Objectives		• This course will provide an introduction to the practice of public health nutrition, discussion of significant public health nutrition problems today.							
Course Contents	Nu con UN Nu trea def tec ant Foo UN Im or sup hea	ntrib NIT triti- atmo ficie hnic hroj od b NIT prov nut	on outir II ona ent ncy ques pom alan alan III vem ritic men An	ng to r l diso for l disor a, Ider netric, nee sh ent of onal o tation	ealth in National development.Malnutrition- meaning. Factors nalnutrition, over nutrition. rders- Epidemiology, clinical features, prevention and dietary Protein Energy malnutrition, nutritional anaemia & vitamin ders. 4. Methods of assessing nutritional status: a) Sampling ntifications of risk groups, b) Direct assessment - Diet surveys, clinical and biochemical estimation. c) Indirect assessment- eet, ecological parameters and vital statistics.				



	Nutritional and infection relationship : Immunization and its importance, Food borne infection and intoxication diseases, foods involved, methods of prevention, Infestation of food borne diseases, Outbreak, Prevention signs and control of infection. National and International agencies in uplifting the nutritional status -WHO, UNICEF, CARE, ICMR, ICAR, CSIR, CFTRI. Various nutrition related welfare programme,							
	UNIT V							
	Community nutrition programme planning - Identification of problem, analysis of causes, resources constraints, selection of interventions, setting a strategy, implementations and evaluation of the programme.							
Course Outcomes	• Students will be able to interpret and apply nutrition concepts to evaluate and improve the nutritional health of communities.							
Text Books	 T. K. Indrani, Manual of Nutrition & Therapeutic Diet. Sehgal and Raghuvanshi, Textbook of Community Nutrition, ICAR. 							
Reference Books	 Suryapata Das, Textbook of Community Nutrition, Academic Publishers. Dr. Prabha Bisht, Community Nutrition in India, Star Publications. 							

Course Title	Ad	Advanced Dietetics							
Course Code	BS	CN	D30)3					
Course	L	Т	Р	TC					
Credits	4	-	-	4					
Prerequisites	Fu	Fundamental knowledge of Basic Dietetics							
Course Objectives		• This course aims at enabling the students to reach the advanced level of practicing dietetics.							
Course Contents	Co of die wit nut stu	UNIT I Concept of Diet therapy: growth and source of dietetics, purpose and principles of therapeutic diets, modification of normal diet, classification of therapeutic diets.Role of Dietitian: Definition of nutritional care, interpersonal relationship with patient, planning and implementary dietary care, Team approach to nutritional care. Routine hospital diets: Preoperative and postoperative diets, study and review of hospital diet. Basic concepts and methods of - (a) Oral feeding (b) Tube feeding (c) Parental nutrition (d) Intravenous feeding. Diet in							



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	surgical conditions, burns and cancer. Obesity and leanness- causes, complication and health effects, dietary treatment and other recommendation.
	UNIT II
	Diet in fever and infections- Types- metabolism in fever, general dietary consideration diet in influenza, typhoid fever, recurrent malaria and Tuberculosis. Diet in gastritis, peptic ulcer- symptoms, clinical findings, treatment, dietary modification, adequate nutrition, amount of food, and intervals of feeding, Chemically and mechanically irrigating foods, four stage diet (Liquid, soft, convalescent, liberalized diet). Diet in disturbances of small intestine and color. • Diarrhea- (child and adult) - classification, modification of diet, fiber, residue. Fluids & nutritional adequacy. • Constipation- flatulence - dietary considerations. • Ulcerative colitis (adults) - symptoms, dietary treatment.
	UNIT III
	Diet in diseases of the liver, gall bladder and pancreas, a) Etiology, symptoms and dietary treatment in - Jaundice, hepatitis, cirrhosis and hepatic coma. b) Role of alcohol in liver diseases. c) Dietary treatment in cholecystitis, cholelithiasis and pancreatitis. Gout- Nature and occurrence of uric acid, causes, symptoms and diet.
	UNIT IV
	Diet in allergy and skin disturbances: Definition, classification, manifestations, common food allergies and test and dietetic treatment.Diet in Diabetes mellitus: a) Incidence and predisposing factors. b) Symptoms-types and tests for detection. c) Metabolism in diabetes d) Dietary treatment & meal management e) Hypoglycemic agent, insulin and its types. f) Complication of diabetes.
	UNIT V
	Diet in Renal diseases: Basic renal function, symptoms and dietary treatment in acute and chronic glomerulonephritis, Nephrosis, renal failure, dialysis. urinary calculi-causes & treatment, acid and alkali producing and neutral foods and dietary treatment. Diet in Cardiovascular diseases: Role of nutrition in cardiac efficiency, incidence of Atherosclerosis, dietary principles, Hyperlipidenmia, Hypertension- causes and dietary treatment, Sodium restricted diet, level of sodium restriction, sources of sodium, danger of severe sodium restriction.
Course Outcomes	• Student will be able to define a dietetic diagnosis and treatment goals in complex patient care by performing the theories of critical reasoning.
	1 V K Joshi Basics of clinical nutrition Jaynee Brothers Medical

Text Books	 Y. K. Joshi, Basics of clinical nutrition, Jaypee Brothers Medical Publishers (P) Ltd. R. Srilaskshmi, Dietetics, New Age International Publishers.



Reference	1. Antia & Abraham, Clinical Dietetics and Nutrition, Oxford University
Books	Press.

Course Title	Di	Dietetics And Counseling									
Course Code	BS	BSCND304									
Course	L	Т									
Credits	4	-	-	4							
Prerequisites	Fu	ndaı	nen	tal kn	owledge of nutrition & dietetics.						
Course Objectives		• This course aims at enabling the students to understand the applicatory aspects of a dietitian.									
	UN	TI	I								
	Practical consideration in giving dietary advice and counseling - a) Factors affecting and individual food choice. b) Communication of dietary advice c) Consideration of behavior modification d) Motivation.										
	UNIT II										
	Counseling and educating patient a) Introduction to nutrition counseling b) Determining the role of nutrition counselor c) Responsibilities of the nutrition counselor d) Practitioner v/s client managed care e) Conceptualizing entrepreneur skills and behavior f) Communication and negotiation skills.										
	UNIT III										
Course Contents	Teaching aids used by dietitians- charts, leaflets, posters etc., preparation of teaching material for patients suffering from Digestive disorders, Hypertension, Diabetes, Atherosclerosis & Hepatitis and cirrhosis.										
	UNIT IV										
	Computer application a) Use of computers by dietitian b) Dietary computations c) Dietetic management d) Education/ training e) Information storage f) Administrations g) Research										
	UN	TI	V								
	UNIT V Computer application a) Execution of software packages b) Straight line, frequency table, bar diagram, pie chart, Preparation of dietary charts for patients c) Statistical computation- mean, median, standard deviation, conclusion and regression test.										



Course Outcomes	• Student will be able to counsel and formulate the nutritional and dietary requirements of the patients/clients.
Text Books	 T. K. Indrani, Manual of Nutrition & Therapeutic Diet. B. K. Mahajan, Methods in Biostatistics, Jaypee Publishers. R. Srilaskshmi, Dietetics, New Age Internatinal Publishers.
Reference Books	 Antia & Abraham, Clinical Dietetics and Nutrition, Oxford University Press. Dr. Pranab Kumar Banerjee, Introduction to Bio-statistics, S. Chand & Co. Ltd.

Course Title	La	Lab Course V							
Course Code	BS	BSCND305P							
Course	L	Т	Р	ТС					
Credits	-	-	2	2					
Prerequisites	Per	rson	nel	Mana	gement and Community Nutrition theory paper				
Course Objectives		• This course aims to help the realization of the organizational goals, the concept of human resource management, the services requited and the Units to be taken into consideration within an organization.							
Course Contents		 Visit and appraisal of any two medical organization. Work simplification: food preparation, Calculating work UNIT, time norms etc. Costing, accounting, budgeting, purchase. Store-keeping: Listing and management of food items in the store. Personnel recruitment: Preparations of a project and report making. Maintenance of the clothing for persons and staff involved in kitchen area. Prepare an inventory for evaluating staffs personal hygiene. 							
Course Outcomes		• The students will be able to understand the working ethics as well as the management of an organization.							



Text Books	 Mohini Sethi & Surjeet Malhan, Catering Management - An Integrated Approach, New Age International Pvt. Ltd. Arun Monappa, Personnel Management, McGraw Hill Education. Boella M. J., Personnel management in the hotel & catering industry, 3rd edition, Hutchinson, London. 					
Reference Books	1. Fearn, D. Management system for the Hotel Catering & Allied Industries.					

Course Title	Lab Course VI						
Course Code	BSCND306P						
Course	L	Т	Р	ТС			
Credits	-	-	2	2			
Prerequisites	Advance Dietetics and Dietetics & Counselling theory paper.						
Course Objectives	• This course aims at enabling the students to reach the calculative and analytical level of practicing dietetics.						
	 Planning, preparations and calculations of diets with modified- (a) Consistency (b) Fibre and residue (c) Diet for Diarrhoea and constipation (d) Diet for peptic ulcer. (e) Diet tor liver disease. 						
		2.	Pla	nning	, preparation and calculation of diets in fever and infections.		
Course Contents	3. Planning, preparation and calculation of diets for insulin dependent Diabetes mellitus, Planning, snacks. Desserts and beverages for diabetes.						
		4.	Pla	nning	. Preparation and calculation of diet in cardiovascular diseases.		
		5.		<u> </u>	, preparations and calculation of diet in Kidney failure, Kidney at, renal complication & Kidney stones.		
		6.			ing, preparations and calculation of diet in Cancer, Trauma & Surgery.		
		7.	Pro	oject p	lanning for any one disease.		
		8.	Co	mpute	er application for different diseases.		
		9.	Su	bmitti	ng computed data.		
		10	. Pre	eparati	ions of teaching aids in the field of nutrition.		



	(Lifective if one the session: 2020 21							
	11. Preparation of case history of a patient and feeding of information in the hard disc.							
Course Outcomes	• Student will be able to formulate the nutritional and dietary requirements of the patients/clients.							
Text Books	 Y. K. Joshi, Basics of clinical nutrition, Jaypee Brothers Medical Publishers (P) Ltd. R. Srilaskshmi, Dietetics, New Age International Publishers. B. K. Mahajan, Methods in Bio-statistics, Jaypee Publishers 							
Reference Books	 Antia & Abraham, Clinical Dietetics and Nutrition, Oxford University Press. Dr. Pranab Kumar Banerjee, Introduction to Biostatistics, S. Chand & Co. Ltd. 							