internal Quality Assurance Cell (IQAO) Hiralal Mazumdar Memorial College for Women Oakshineswar, Kolkata

Course Outcome

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I. INTRODUCTION ABOUT THE COURSE

B.SC in food & nutrition is a 3years undergraduate course and also a multidisciplinary subject which covers all the aspects of food and nutrition such as diet therapy putritional bits of the subject to the subject of the sub which covers all the aspects of food and nutrition such as diet therapy, nutritional bio chemistry, microbiology, food chemistry, community nutrition, epidemiology, food processing and technology, research methodology& bio statistics, counselling physiology. Not only this, this subject also have several job prospects like work in hospitals, gyms, food industries, health clubs and also can work as food scientists, food technologists, quality control manager, food production manager. Apart from that after passing National Eligibility Test or state eligibility test, students can opt for academic career. Moreover they learn to understand the role of food and nutrients in health and disease processes and will be able to prepare and deliver effective presentations of information to food science and nutrition professionals and to the general public.

II.

	Paper Code	Paper Name	Course Outcome
	FNTACORO1T&	Human Nutrition	This course of food and nutrition composed of several
	Р		units like an introduction of food &nutrition, cooking of food, energy requirements, digestion of food and
			also nutrients. This is the preliminary course for a food and nutrition honours student.
			They can Understand the food groups and their
			functions. Acquire knowledge on different methods of
			cooking Apply process of different foods Use
	1*	4,	combination of foods in the development of food products.
	FNTACORO2T& P	Physiology in Nutrition	This course consists of several human physiology portions like blood, cardiovascular system, respiratory system, renal physiology. Cell and also practical like
	2		measurements of blood pressure, pulse rate, ECG, BT,
	1		CT, blood group measurement, haemoglobin estimation of a human body. So from this portion
			student can learn a lot about the physiology of a
			human which is very much important for a nutrition student.
			1. Understand the Structure and Functions of the various organ systems of the body
			2. Relate the Structure with Functions of the tissues and organs
			3. Comprehend the Mechanism of Action of Organs
			4. Relate the Physiology of the human body with Food and Nutritional requirements
			5. Recognize the Clinical Symptoms of Nutritional
-	FNTACORO3T&	F 101	Deficiencies based on anatomical considerations
	P	Food Chemistry,	This part consists of several food chemistry topics like
	1	Biophysics and	earbonydrate, protein, fat chemistry, water,
2	taga e	Biochemical Principles	physicochemical properties, and enzymes. In practical
			part students get to learn about identification of carbohydrate, protein ,fat, osmotic pressure and

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	ı	specific gravity calculation.
FNTACORO4T&	Human physiology	This is the human physiology portion which
P P	Tuman physiology	composed of nerve, muscle, hormones, and
		reproductive system. In practical students get to learn
		about identification of slides, TC DC count, visual
		acuity determination.
FNTACORO5T&	Nutrients Metabolism	This section gives a clear knowledge about different
P	Nuti lents Metabolish	metabolic pathways of the nutrients. It's important to
Γ		study the metabolic pathways to understand nutrients
ω.		requirement for better health.
)		All the analytical methods include in this section have
		a practical impact in our daily life. This section will
	П	help the students to pursue experimental work in
		higher studies.
FNTACORO6T&	Nutrition Through Life	From this course students will be learn about
P	Span	basics of meal planning and Physiological change
	Spair	through life span and RDA nutritional guidelines and
		healthy food choices for Pregnancy, lactation,
-		Infancy, Children and adolescents, Adults and Elderly.
		From this course students will be learn about
		Nutrition through life span: able to understand
		importance of lifestyle, Diet and menu planning ,
		physiological aspects of different age of human, like
4		infant, pre- schooler, school children and adolescent,
		Adult, pregnancy and geriatric.
FNTACORO7T&	ELEMENTARY DIETETICS	Dietetics, dietician, food groups, dietary guidelines,
P	AND MENU PLANNING	menu planning, basics of diet therapy, diet for health
		care and routine hospital are the topics covered in
		this portion. Students gather basic knowledge of
		elementary dietetics and how to prepare meals for
		individual and patients.
		Planning and preparation of normal diets, different
		fluid diets soft diet and nutrient modified diets.
		Students get practical training about the apeutic diets
		which are needed by the patients in hospital or at
		home. It is course in the second seco
FNTACORO8T&	COMMUNITY	Concept of community, nutritional assessment,
Р	NUTRUTION	surveillance, diet survey, clinical sign, agencies and
		programmes. Students understand about meaning of
		community, its types, and all other aspects of it.
		Anthropometric measurement of infant, comparison
,		with norms, growth charts, clinical assessment, diet
		with norms, growth charts, clinical assessment, diet surveyal Practical hands on training regarding
-		Hughly assessment of infants inclusive of their
		clinical assessment and survey of diet within family
,		are learnt by the students have to propage meals for
FNTACORO9T&	EPIDEMIOLOGY AND	It consists about health, community health,
Р	PUBLIC HEALTH	epidemiology, communicable disease and their
-		control, prevention, public health, immunization,
	e	community health care, water management, waste
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-X		management, air pollution. Students learn about Preparation of 3 audio visual

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		aids like charts, posters, models related to health and nutrition education, Formulation and preparation of low cost and medium cost nutritious/ supplementary recipe, Field visit (health centre, immunization centre, ICDS, MCH centre, NGOs etc.).
FNTACOR10T&	Diet therapy for	
P	lifestyle disorders	disorders and their types, aetiology and management. Disorders like Diabetes, CVD, Obesity, Gout, PKU, MSUD, Respiratory health, Cancer, Arthritis, and Osteoporosis etc. From this course students will be learn about Planning and preparation of diet: Medical nutritional therapy that can address the syndrome like diabetes and disease like HTN, Mal nutrition, Gout,
		osteoporosis.
FNTACORIIT&P	CLINICAL NUTRITION AND DIET FOR SPECIAL SITUATIONS IN LIFE	Knowledge being imparted to students about nutritional management of physiological stress, GI diseases, gall bladder and pancreatic disorders, liver diseases, renal diseases, allergy and neurological diseases. They get information about different diseases and their management. Students gather knowledge about planning and preparation of diets in different diseases condition like peptic ulcer, viral hepatitis, fever, acute and chronic renal failure. It will help them to prepare diet charts in hospital or individual level.
FNTACOR12T&	Food Microbiology and	This portion includes both food microbiology and
P	Immunology	immunology. Microbiology portion includes both bacteriological study and food spoilage by others microbes! Food fermentation with the concept of probiofics is also part of this section. In this practical paper students will learn about different detection methods of basic food microbiology. Also it includes immune diffusion technique for the measurement of antibodies and antigens.
FNTACORO13T &	CLINICAL NUTRITION	This portion consists of several clinical nutrition
P	AND DIET FOR SPECIAL SITUATIONS IN LIFE	condition and diet for special situation like dietary modifications in stress, fever, GI diseases, and malabsorption syndrome, disease of gall bladder and pancreas, liver disease, renal disease, allergy, neurological disorder. Practical portion consist of planning and preparation of diets for peptic ulcer, hepatitis, fever, renal failure. From this students can learn about how to prepare diet for these special health conditions of a patient of Develop skills in planning therapeutic diet. Analyze the disease condition hand plan
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00		3. Calculate menus methods of basid cod 3. Calculate nutrient content of diet plans e diffusion 4. Prepare the various types of diets
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7		4 5 9 H - 利利
	F 1	5. Learn techniques in diet tray arrangement and
FNTACORO14T &	RESEARCH METHODOLOGY AND	assess patient compliance. It consists of research methodology, research problems, study design, sampling of data and
	BIOSTATISTICS	analysis; preparation of report
	,	Students can learn about Assignment for calculation
		of mean, median, mode, standard deviation, standard
		error of mean and students' 't' test with provided
FNTADSE02T&P	Entrepreneurship in	data. From this course students will be learn about
TIVIADSLOZIQE	Entrepreneurship in Food Industry	Entrepreneurship in food industry :
	, sou madding	Can understand reason behind the success of top
		entrepreneurs, SWOT analysis, skills, goal setting,
		techniques, positive impact on market
		Food business management :
	*	How to develop business environment,
		demonstrations, identifying of key customer, data
		analysis, market intelligence, business plan, pilot projects, finance and tax calculation
	,	Personal development and communication skills:
		Help to build self confidence on communication skills
		and body language, relationship building, leadership
	,	and team building. Grooming, dressing etiquette,
ENTA DOSCOTO D		interview preparation.
FNTADSE03T&P	FOOD BORNE DISEASES AND FOOD	It consists of food born disease, lactose intolerance,
	AND FOOD TOXICOLOGY	and mechanism of food born disease, food safety, hygiene and sanitation, food safety management,
	10/11002001	toxic agents in food.
		Students can learn about Assessment of surface
		sanitation by swab and rinse method, Assessment of
		personal hygiene, Designing of various food
		processing systems and food service areas, Design
		and layout of cold storage and ware house,
		Assessment of physico chemical properties of waste
		Water, asolation and enumeration of bacteria from rotten food bread and vegetables testing of
		sanitizers and disinfectants, Study of inphenol
		coefficient of sanitizers Visit to Food industry and
FAITADCECETOR		preparation of report. Out the district allowers
FNTADSE05T&P	Dairy Technology	This section is completely based on dairy technology.
		Students will be able to learn about properties,
		composition, products and industry of milk. Also the practical paper of this portion includes
		different analytical methods to detect milk quality. It
		also includes dairy industry visit.
		Both theory and practical papers will provide a clear
		knowledge about dairy technology which will help the
		students to pursue their career in milk industry sag
FNTADSE06T&P	NUTRITIONAL	FOOID analyst: Office Eto age after tering legistic
	MANAGEMENT AND	It: consists of diet counselling of many non-
No 8 4	71140	communicable disease; communication skills;
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		COUNSELLING	psychology and counselling, diet counselling at
			hospital and community level.
		Ti .	Organizing health camps and patient feedback at
			hospital and community level. Diet counseling for
			mother and child care, adolescent, obese people,
			diabetic patient, CVD, patient follow up and home
			visits. Students get to know thoroughly about
_			counseling and management.
	FNTSSEC02M	Instrumentation	Student can learn about functioning of different
	1		instruments like Microscopy, Chromatography,
			Spectrophotometry etc. Also this portion includes
			updated version of the above mentioned
			instruments
	FNTSSEC02M	Field study in	From this course students will be learn aboutField
	1111332002111	clinical/Community	study:
		Setting	And also Learn about what is clinical nutrition and its
		Setting	implementation, RDA, role of hospital dietitian, staff
			training and development, RD eligibility.
	FNTGCORO1T	FOOD AND NUTRITION	THIS PORTION OF FOOD AND NUTRITION GENERAL
	AND P	FOOD AND NOTHING	COMPOSED OF AN INTRODUCTORY PART OF FOOD
	ANDP		AND MITRITION CONCEPTS ABOUT ALL THE
			ALL STOLENTS METABOLISM ALL KIND OF DEFICIENCY
		,	DISFASES.
			PRACTICAL CONSISTS OF EYE ESTIMATION OF FOOD
			STUFFS, AND PREPARATION OF DISHES FROM BASIC
		·	FIVE FOOD GROUPS. DIET FOR PREGNANT AND
			LACTATING MOTHER, SUPPLEMENTARY FOOD
			PREPARATION OF INFANTS.
	FNTGCORO2T	HUMAN BODY AND	This course consists of several human physiology
	AND P	NUTRITION	portions clike blood, cardiovascular system,
		v	Exitablecell, regulatory system, respiratory system,
			DIGESTION. cell and also practical like measurements
			of blood pressure, pulse rate, ECG, BT, CT, blood
			group measurement, haemoglobin estimation of a
			human body, so from this portion student can learn a
			of about the physiology of a human which is very
			much important for a nutrition student UT ALL THE This portion of food and nutrition general consists of _
	FNTGCORO3T	COMMUNITY	concepts of community inutritional assessments of a
	AND P	NUTRITION AND	person, - surveillance system, Cintervention
		HEALTH ASSESSMENT	programme, nutrition education.
			In practical students lean how to assess the nutrition
			status along with diet survey , ORS preparation, and
			preparation of low cost and medium cost school
	,		tiffin.
	FNTGCORO4T	DIETETICS	This portion consists of several hospital diets, menu
	AND P	Dieterios	planning , RDA, dietary management of different
	AND		diseases, food allergy.
			In practical there is planning and preparation of fluid,
			soft and solid diet, peptic ulcer, fever, hypertension,
	2		diabetes mellitus, hepatitis, obesity diet preparation
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		and planning which gives an clear idea about the therapeutic diet preparation.
FNTGDSE02T	FOOD SAFETY AND FOOD PROCESSING	In this portion students learn about food additives, food spoilage, food adulteration, food laws, food preservation, preserved products.
		adulteration , preparation of jam, jelly, pickles.
FNTGDSE04T AND P	NUTRITIONAL BIOCHEMISTRY	This is the biochemistry part for the nutrition general students where they learn about carbohydrate, protein, fat metabolism, and in practical they learn about identification test of carbohydrate and protein

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B.Sc. Honours in Food and Nutrition

	Programme Specific			
	Outcome			
1.	Interpret and apply nutrition concepts to evaluate and improve the nutritional health of communities.			
2.	Apply analytical principles of food and nutrients in diet formulation.			
3.	Analyze nutrients, food quality and manage diseases using diet therapy.			
4.	Integrate knowledge and skills in food and nutrition with professional issuesaffecting the nutrition and/or dietetics fields.			
5.	Devise research strategies for empowering and promoting healthy living inthe community.			
6.	Apply food science knowledge to describe functions of ingredients in food.			
7.	Understand the role of food and nutrition for the welfare of the community.			
8.	Apply skill based knowledge in food industry.			
9	Change nutrition & lifestyle towards a better future society.			
1 0.	Utilize knowledge from foundational sciences as a basis for understandingthe role of food and nutrients in health and disease.			
1	Learn some food processing techniques (like preparation of jam, jellies, pickles, squash etc.) which can also open a job opportunity. They can also spread their knowledge to other people. This helps to form self help groups.			

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