College of Home Science Nirmala Niketan

49, New Marine Lines, Mumbai -400020

Program Outcomes: B.Sc. (Home Science)

F.Y.B.Sc. (Home Science)

Subject: Food Science

Course Outcome No.	Course Outcomes	The level of Bloom's Taxonomy
CO1	To outline the various food groups and list the common foods consumed within each food groups in India and globally and to use various digital data bases for listing of foods.	Level 1
CO2	To understand the basic principles and concepts of food science, culinary science and food chemistry with respect to the five food groups (i. cereals and grains, ii) legumes, nuts and oilseeds iii) milk, egg, poultry, meat and sea food iv) vegetables and fruits v) Fats oils and sugars.	Level 2
CO3	To apply food science principles in selection, preparation, storage and preservation of food taking into account economic, social, regional, cultural and ethnic variations in food availability and consumption pattern	Level 3
CO4	To Analyze the various food science facts and phenomena that exist in the food being prepared at household, food service organization and industrial level and to analyze documented and published literature related to food science.	Level 4
CO5	To evaluate the nutritive value of various food in terms of macronutrients and major micronutrients and its safety for human consumption based on physical, chemical and microbiological factors.	Level 5
CO6	To design and plan various recipes to preserve and improve both the nutritive attributes and the sensory qualities applying food science principles.	Level 6

T.Y. B. Sc. (Home Science) Branch I: Food Nutrition and Dietetics

Subject: Human Nutrition-micronutrients & Functional Foods

CO	After completing the course, the student should be able to	Bloom's Taxonomy level	Units Covered
CO-1	Explain the functions, causes, symptoms of deficiency and toxicity of micronutrients, and health benefits of various functional foods.	Understand	3
CO-2	Differentiate between the requirements of various micronutrients for different age groups and physiological conditions (Pregnancy & Lactation)	Analyze, Evaluate and create	3
CO-3	Justify the need for meeting the Recommended Dietary Allowances (RDA) by population on a daily basis to facilitate utilization of macronutrients in order to maintain health and fitness.	Evaluate	3
CO-4	Design appropriate food and drug consumption strategies for patients on regular medications so as to facilitate the utilization of nutrients and expected outcome of pharmacotherapy.	Create	1 (unit 3)
CO-5	Identify the specific role of micronutrients, phytochemicals and functional foods in health and disease, and apply the knowledge to develop effective online awareness programs	Analyze & Apply	3
CO-6	To modify the commonly consumed community specific recipes incorporating nutritious foods in order to meet the requirements of micronutrients with highly bioavailable micronutrients and phytochemicals.	Apply	3

Subject: Community Health Nutrition

CO	After completing the course, the students should be able to	Blooms Taxonomy Level	Units Covered
CO1	Understand the health indicators and interpret the health indicators to get better insight in the health problems.	Analyze	1
CO2	Understand the special needs and nutritional requirements of the vulnerable groups.		1
CO3	Understand the functioning of the		1

	health care system in India		
CO4	Assess the various nutritional problems and identify the causative factors	Apply	1
CO5	Understand the various background problems that affect food and nutrition security in the community	Remember	2
CO6	Develop strategies and education programme to combat nutritional problems	Create	2
CO7	Understand the nature of communicable diseases, modes of transmission and its prevention	Understand	3
CO8	Understand the food and water borne infections and to develop health education programmes for the same	Apply, Create	3
CO9	Understand the causative factors such as water and land pollution anddevelop community education programmes	Create	3

Subject - Nutritional Surveillance

CO	**After completing the course, the students should be able to**	**Blooms Taxonomy Level**	**Units Covered**
CO1	Understand the importance of nutritional surveillance and its	Understand	1

	application in field situations.		
CO2	Understand the ABCD approach of nutritional assessment and to use it in field situations	Apply	2
CO3	Decide the appropriate tools to be used in data collection	Appply	2
CO4	Create nutritional and diet surveys to elicit information from the community	Create	2
CO5	Understand the and correlate the clinical signs and symptom with the deficiency	Remember	2
CO6	Develop interventional and education programme to combat PEM, SAM and MAM	Create	2
CO7	To assess the impact of the interventional or health education programmes	Evaluate	3
CO8	Understand the food and water borne infections and to develop health education programmes for the same	Apply, Create	3
CO9	Understand the functioning of various national and international agencies so that they can be approached for collaborations	Remember	3

T.Y. B. Sc. (Home Science) Branch II: Human Development
Subject: Social Psychology

CO	After completing the course, the student should be able to:	Bloom's Taxonomy Level
CO1	Recall and identify the broad areas of Social Thinking, Social Influence and Social Relations as well as all the terminology and the associated contributing researchers under those 3 broad areas.	1 – Remember
CO2	Explain the processes that function in Social Psychology (E.g.: how the self-concept develops; the link between behaviours and attitudes; the behaviour of individuals when alone vs. in groups; how people relate to one another, etc.)	2 - Understand
CO3	Apply the theories and processes of social behaviour to their day-to-day lives (E.g.: Social facilitation, Social loafing, etc.)	3 - Apply
CO4	Categorize, compare and differentiate the various theoretical models of social behaviour and debate on controversial social behaviours (E.g.: Social learning, Deindividuation, Group Think, Attraction and Divorce in Relationships, etc.)	4 – Analyze
CO5	Critique the research methods used in Social Psychology and justify their positions on controversial social behaviours like aggression, persuasion, prejudice, conformity, etc.	5 - Evaluate
CO6	Generate ideas or design plans for the betterment of society, using the principles and theories of Social Psychology.	6 - Create

T.Y. B. Sc. (Home Science) Branch III: Textile and Fashion Technology
Subject: Fabric Structure & Construction – Woven

A student should be able to:		Bloom's Taxonomy
CO1	Describe the properties of textiles made from various fibers, yarns and non-fibrous materials	2
CO2	Explain the different types of looms and their functioning	1
CO3	Understand the various woven fabric structures	2
CO4	Differentiate and categorize between different structures of elementary and complex weaves	4
CO5	List and evaluate the properties of fabrics made using different elementary and complex weaves	5
CO6	Identify, illustrate and create various elementary and complex weaves	6

Subject: Textile & Apparel Marketing

CO	After completing the course student should be able to	Bloom's Taxonomy Level
CO1	Define and understand the meaning of market and various concepts in marketing	1
CO2	Identify and analyse the consumer market and the changing trends of consumer buying pattern	2
CO3	Identify and analyse the various marketing mix for product at various life cycle.	4
CO4	Examine and judge various processes in market research for a given situation	5
CO5	Understand the various brands and quality standards	2
CO6	Analysis and Interpretation of case studies for finding out appropriate solution	3

T.Y. B. Sc. (Home Science) Branch IV: Community Resource Management

Subject: Human Performance at Environmental Extremes

	After completing the course, the student will be able to:	**Bloom's Taxonomy Level**
CO1	Outline the physiological structure and processes of the musculoskeletal system in detail to the physiological aspects of work	**Remember 1**
CO2	Demonstrate higher level critical thinking skills, solving problems, and be able to measure the physiological cost of work	**Understand 2**
CO3	Evaluate and apply measuring methods for assessment of the extreme environment effects on human	**Evaluate 5**
CO4	Apply the knowledge of physical environment and its effects on health, work capacity, to assess workplace hazards and its effect on occupational health	**Apply 3**
CO5	Describe work-related causes of musculoskeletal disorders;	**Understand 2**
CO6	Identify, interpret, recognize and evaluate physical, chemical, biological hazards in the workplace, and to determine appropriate hazard controls following the hierarchy of controls.	**Apply 3**
CO7	Describe the association between workplace exposure and health effects thereby advice on how to prevent work-related diseases in accordance to rules and regulations.	**Apply 3**

Program: M.Sc. (Home Science)

M. Sc. (Home Science) Branch I: Food Nutrition and Dietetics
Subject: Nutrition Surveillance

CO	After completing the course, the students should be able to	Blooms Taxonomy Level	Units Covered
CO1	Understand the concepts of Epidemiology and the various terms and definitons used in Epidemiology	Analyze	1
CO2	Understand the different research methods that can be used in conducting research studies.	Apply	1
CO3	Apply the suitable sampling technique for their research studies	Apply	1
CO4	Understand the causes on nutritional problems	Remember	1
CO5	Understand the vicious cycle of infection and malnutrition	Remember	2
CO6	Understand the various markers and their interpretation and use the knowledge in field situations	Analyse	2
CO7	Understand the statistical concept of validity , reliability and sources of errors so that they can be applied in the statistical analysis	Apply	3
CO8	Understand the Millenium	Remember	3

	Devbelopment goals and design research projects considering the MDGs		
CO9	To design various interventional programmes Understand the functioning of various International and National agencies	Create	3

Subject: Public Health Nutrition

CO	**After completing the course, the students should be able to**	**Blooms Taxonomy Level**	**Units Covered**
CO1	Understand what is public health and with special references to Indian scenario.	Remember	1
CO2	Understand the various factors affecting the ecological level and planning interventional strategies based on ecological level.	Apply	1
CO3	Create interventional strategies at individual level and implement them in the community	Apply	1
CO4	Plan and devise dietary goals and dietary guidelines	Create	1
CO5	Understand the various factors affecting food choices of people.	Remember	2
CO6	Assess the nutritional status of people using the ABCD approach	Apply	2

CO7	Understand the child feeding practices, PEM, SAM and MAM problems in India and develop interventionals education programmes	Analyze	2
CO8	Understand the various problems associated with reproductive health, maternal nutrition, IUGR and Geriatric problems.	Apply, Create	2
CO9	Analyse the causes of micro nutrients deficiencies and develop combating strategies	Create	3
CO10	Understand the special nutritional requirements in HIV infections	Remember	3
CO11	Understand the growing problem of NCDs at national and global leveland to develop effective interventional strtegies	Apply, Create	3

M. Sc. (Home Science) Branch III: Textile and Fashion Technology
Subject: Research Methods and Statistics I

After completing the course, the student should be able to:		Bloom's Taxonomy level
CO1	List, describe and discuss the concept of research, types of research and compare and contrast different types of research	1, 2
CO2	Explain the various paradigms of research	2
CO3	Describe the steps involved in the research process	2
CO4	Explain and apply the variables involved in the research study	2, 3
CO5	Describe and analyze various levels of measurements in the research study	2, 3
CO6	Understand the concept of validity and reliability in quantitative research	2
CO7	Apply the knowledge gained to produce data entry sheets	3

CO8	Understand the role of statistics in quantitative research	2
CO9	Understand and apply descriptive statistics for summarizing ratio level variables	2,3
CO10	Relate, apply and categorize descriptive statistics for summarizing nominal, ordinal and interval level variables	2, 3, 4
CO11	Discuss use of the computer software package for statistical analysis in social sciences	2
CO12	Describe the elementary concepts related to probability	2
CO13	Apply the theories of probability for advanced/inferential statistics	3

Subject: Natural Fiber Science -

After completing the course, the student should be able to:		Bloom's Taxonomy level
CO1	Remember and understand the morphology, chemical constitution and manufacturing processes of cellulosic and proteinic fibers	1, 2
CO2	Recall and apply this knowledge for understanding the chemical reactions of these natural fibres with various chemical reagents	2,3
CO3	Analyze and assess the physical and chemical effects of various factors/reagents on these natural fibres	4,5

Subject: Regenerated and Synthetic Fiber Science

After completing the course, the student should be able to:		Bloom's Taxonomy level
CO1	Remember and understand the morphology, chemical constitution and manufacturing processes of regenerted and syntheitc fibers	1, 2
CO2	Recall and apply this knowledge for understanding the chemical reactions of these fibres with various chemical reagents	2,3
CO3	Analyze and assess the physical and chemical effects of various factors/reagents on these regenerted and syntheitc fibres	4,5
CO4	Relate the knowledge already gained to evaluate the ecological concerns in the manufacturing and processing of regenerted and syntheitc fibers	2
CO5	Extend the knowledge to understand the recent developments in the field of regenerted and syntheitc fibres	2