Home Science

(A) Major Core Courses

Sl. No.	Sem	Type of Course	Name ofCourse	Credits	Marks
1.	I	MJC-1 (T)	Food Science & Nutrition (T)	4	100
2.	I	MJC-1 (P)	Food Science & Nutrition (P)	2	100
3.	II	MJC-2 (T)	Fundamentals of Human Development (T)	4	100
4.	II	MJC-2 (P)	Fundamentals of Human Development (P)	2	100
5.	III	MJC-3	Resource Management Concepts and Context	5	100
6.	III	MJC-4	Human Physiology	4	100
7.	IV	MJC-5 (T)	Communication & Extension (T)	3	100
8.	IV	MJC-5 (P)	Communication & Extension (P)	2	100
9.	IV	MJC-6 (T)	Introduction to Textile (T)	3	100
10	IV	MJC-6 (P)	Introduction to Textile (P)	2	100
11.	IV	MJC-7 (T)	Dietetics (T)	3	100
12.	IV	MJC-7 (P)	Dietetics (P)	2	100
13.	V	MJC-8	Child Psychology	5	100
14.	V	MJC-9	Family Finance & Consumer Behavior	5	100
15.	VI	MJC-10	Non Formal, Adult and Lifelong Education	4	100
16.	VI	MJC-11 (T)	Child Rights and Social action (T)	5	100
17.	VI	MJC-11 (P)	Child Rights and Social action (P)	5	100
18.	VI	MJC-12 (T)	Planning & Designing interior space (T)	5	100
19.	VI	MJC-12 (P)	Planning & Designing interior space (P)	5	100
20	VII	MJC-13 (T)	Clothing Construction (T)	5	100
21.	VII	MJC-13 (P)	Clothing Construction (P)	5	100
22.	VII	MJC-14	Research Methodology	5	100
23.	VII	MJC-15	Early Childhood Care and Education	6	100
24.	VIII	MJC-16	Public Health Nutrition	4	100

Sub Total=80

4

MJC-1

Food and Nutrition

Course Outcomes:

CO1: Understand the relationship between food, nutrition and health

CO2: Understand the role and functions of nutrients, its composition, requirements and the effect of deficiency and excess

CO3: Understand the concept of an adequate diet and the importance of meal planning

CO4: Describe different methods of cooking and its impact on the stability of nutrients.

MJC-1	Food and Nutrition	
	(Theory: 4 Credits)	

Unit	Topics to be covered	No. of Lectures
I	 Introduction to Food and Nutrition Definition and terms used in Food and Nutrition Functions of food Concept of Balanced Diet Malnutrition:- Types, causes, symptoms and treatment Meal planning-steps in meal planning, factors affecting meal planning for a family Food Exchange list, Food pyramids 	6
П	Basic concepts, classification, composition, nutritive value and role in cookery of different food groups. Cereals and Cereal Products Pulses and Legumes Fruits and Vegetables Salt, Sugar and Jaggery Nuts, Oils and Oil seeds Milk and Milk Products Eggs, Meat, poultry and fish Spices and Condiments -Importance and functional properties	12
III	Macronutrients Definition, classification, dietary Sources, functions, Recommended Dietary Allowances, clinical signs and symptoms of Deficiency diseases and Excess of Carbohydrates Proteins Lipids Water	10

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IV	Micro nutrients	08		
	Minerals			
	Classification, Sources, functions and deficiency of Calcium, Phosphorus,			
	Magnesium, Sodium, Potassium, Selenium, Iron, Zinc, Iodine, Copper Vitamins			
				Classifications, functions, sources, requirement, clinical signs and symptoms
	and deficiency of: -Fat Soluble Vitamins - A, D, E and K - Water Soluble Vitamins-B Complex Vitamins- Thiamine, Riboflavin,			
			Niacin, Pyridoxine, Folic acid, Cyanocobalamin and Vitamin C	
			V	Methods of Cooking
	Types, Advantages and disadvantages of cooking methods			
(i) Moist heat methods -boiling, simmering, steaming, & Pressure cooking				
(ii) Dry heat methods – baking. Microwave				
(iii) Fat as a medium for Coking-shallow and deep fat frying				
	Total	40		

Reading List:

- Bamji, MS., Krishnasamy, K., Brahmam ,G.N.V. (2012). Text Book of Human Nutrition, 3rd Edition, Oxford and IBH Publishing Co. P. Ltd., New Delhi.
- Longvah, T., Ananthan, R., Bhaskarachary, K., Venkaiah, K. (2017). Indian Food
- Composition Tables (IFCT), Indian Council of Medical Research, National Institute of Nutrition, Hyderabad.
- Maney, S. (2008). Foods, Facts and Principles, 3rd Edition Published by Wiley Eastern, New Delhi.
- aina, U., Kashyap, S., Narula, V., Thomas S, Suvira., VirS., Chopra, S. (2010). Basic Food Preparation: A Complete Manual, 4th Edition, Orient Black Swan Ltd, Mumbai.
- Srilakshmi, B. (2017). Nutrition Science, New Age International (P) Ltd., New Delhi.
- Sunetra, Roday. (2017). Food Science and Nutrition, Oxford University Press, New Delhi.
- Usha, Chandrasekhar. (2002). Food Science and Application in Indian Cookery, Phoenix Publishing House P. Ltd., New Delhi.

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MJC I	Foods and Nutrition	No. of classes
	Practical: 2 Credits	
1.	Basic Cooking skills Weights and measures - standard and household measures for raw and cooked foods.	40
2.	Preparation of various dishes using different methods of cooking - Boiling/steaming - Roasting - Frying-Deep/shallow - Pressure cooking	
3.	Food Preparation, understanding the principles involved,	
	nutritional quality of commonly consumed recipes in each	
	 food group Cereals: rice, roti, paratha, poori, pastas etc Pulses: Whole, dehusked- Dal, sambar, Chole, etc Vegetables: Dry preparations, Curries Milk and milk products: Kheer, Custard, Meat, fish and poultry preparations Egg preparations: Boiled, poached, fried, omelette 	
4. Dif	Ferent styles of cutting fruits and vegetables - Salad Decoration/Dressing - Table setting, Napkin Folding	

REFERENCES

- Srilakshmi B, (2007), Dietetics. New Age International publishers. New Delhi
- Srilakshmi B ,(2002), Nutrition Science. New Age International publishers. New Delhi
- Swaminathan M. (2002), Advanced text book on food and Nutrition. Volume I. Bappco.
- Gopalan. C., RamaSastry B.V., and S. C. Balasubramanian (2009), Nutritive value of Indian Foods. NIN. ICMR. Hyderabad.
- Mudambi S R and Rajagopal MV, (2008), Fundamentals of Foods, Nutrition & diet therapy by New Age International Publishers, New Delhi

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