Syllabus for B.Sc Nutrition and Dietetics Choice Based Credit System Semester I

CORE COURSES

(CREDITS: THEORY-4, PRACTICAL-2)

THEORY

UNIT I Basic concepts in food and nutrition

Basic terms used in study of food and nutrition

- ☐ Understanding relationship between food, nutrition and health
- ☐ Functions of food
 - Physiological
 - Psychological and social

UNIT II Nutrients

- ☐ Functions, dietary sources and clinical manifestations of deficiency/ excess of the following nutrients:
 - Carbohydrates, lipids and proteins
 - Fat soluble vitamins-A, D, E and K
 - Water soluble vitamins thiamin, riboflavin, niacin, pyridoxine, folate, vitamin B12 and vitamin C
 - Minerals calcium, iron and iodine

UNIT III Food Groups

- □ Selection, nutritional contribution and changes during cooking of the following food groups:
 - Cereals and Pulses
 - Fruits and vegetables
 - Milk & milk products
 - Eggs , Meat, poultry and fish
 - Fats and Oils

UNIT IV Methods of Cooking and Preventing Nutrient Losses

vave cooking
ooking on nutrients

PRACTICAL

- 1. Weights and measures; preparing market order and table setting
- 2. Food preparation, understanding the principles involved, nutritional quality and portion size

- Beverages: Hot tea/coffee, Milk shake/ lassi, fruit based beverages
- Cereals: Boiled rice, pulao, chapatti, parantha, puri, pastas
- Pulses: Whole, dehusked
- Vegetables: curries, dry preparations
- Milk and milk products:Kheer, custard
- Meat, Fish and poultry preparations
- Egg preparations: Boiled, poached, fried, scrambled, omelettes, egg pudding
- Soups: Broth, plain and cream soups
- Baked products: Biscuits/cookies, cream cakes, sponge cake preparations, tarts and pies
- Snacks:pakoras, cutlets, samosas, upma, poha, sandwiches
- Salads: salads and salad dressings.

RECOMMENDED READINGS

	Mudambi, SR and Rajagopal, MV. Fundamentals of Foods, Nutrition and
	Diet Therapy; Fifth Ed; 2012; New Age International Publishers
	Mudambi, SR, Rao SM and Rajagopal, MV. Food Science; Second Ed; 2006;
	New Age International Publishers
	Srilakshmi B. Nutrition Science; 2012; New Age International (P) Ltd.
	Srilakshmi B. Food Science; Fourth Ed; 2010; New Age International (P) Ltd.
	Swaminathan M. Handbook of Foods and Nutrition; Fifth Ed; 1986; BAPPCO.
	Bamji MS, Rao NP, and Reddy V. Text Book of Human Nutrition; 2009; Oxford
	& IBH Publishing Co. Pvt Ltd.
	Wardlaw GM, Hampl JS. Perspectives in Nutrition; Seventh Ed; 2007;
	McGraw Hill.
	Lakra P, Singh MD. Textbook of Nutrition and Health; First Ed; 2008;
	Academic Excellence.
	Manay MS, Shadaksharaswamy. Food-Facts and Principles; 2004; New
	Age International (P) Ltd.
	Potter NN, Hotchkiss JH. Food Science; Fifth Ed; 2006; CBS Publishers
	and Distributors.
	Sethi P and Lakra P Aahaar Vigyaan, Poshan Evam Suruksha, Elite
	Publishing House, 2015
	Jain P et al. Poshan va swasthya ke mool siddhant (Hindi); First Ed; 2007;
	Acadamic Pratibha.
	Vrinda S. Aahar Vigyan (Hindi); 2003; Shyam Prakashan
	Suri S. and Malhotra A. Food Science, Nutrition & Food Safety Pearson India
	Ltd. 2014.
	Raina U, Kashyap S, Narula V, Thomas S, Suvira, Vir S, Chopra S. Basic Food
	Preparation – A Complete Manual. Orient Longman, 2005.
	Khanna K, Gupta S, Seth R, Mahana R, Rekhi T. The Art and Science of Cooking.
_	Phoenix Publishing House Private Limited, Delhi 1998.
	The class of the control of the cont