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Core Course 11: THERAPEUTIC NUTRITION

(CREDITS: THEORY-4, PRATICAL-2)

THEORY

LECTURES:60

Objectives:

- To promote good health by teaching the public and other health professionals about and nutrition.
- To know the nutritional management of different diseases.

Out Comes:

The department of nutrition and dietetics is to establish and encourage good nutritional practice and standards as an integral part of the health care.

Unit 1 Principles of nutrition care-

- **Nutrition Care Process**
- Therapeutic adaptations of normal diet
- Progressive diets- Clean fluid, full fluid, soft and regular

Unit II Etiology, clinical features and nutritional management of inflection and fevers

- **Typhoid**
- **Tuberculosis**
- HIV

Unit III Etiology, Clinical features and nutritional management of the following

- Diarrhoea
- Constipation
- Lactose intolerance
- Celiac disease
- Liver: infective Hepatitis

Unit IV Etiology clinical features and nutritional management of

- Weight Imbalances- Over weight and obesity: Under weight
- Eating disorder- anorexia nervosa and bulimia

Unit V: Etiology clinical features, basic diagnosis and nutritional management of the following

- Type 1 and Type 2 Diabetes Mellitus
- Hypertension and Coronary Heart Disease

PRATICAL

Planning of Diets for the following

Therapeutic Diet-Normal, soft, clear and full fluid

- (i) Fever: acute and chronic
- (ii) Obesity
- Type 2 Diabetes (iii)
- Hypertension and CHD (iv)

RECOMMEDED READING

Khanna, K. Gupta S, Seth R, Passi, S.J. Mahan, R. PuriS(2013), Text book of Nutrition and Dietetics Phoenix Publishing House Pvt Ltd.

Core Course 12: PHYSIOLOGY AND PROMOTIVE HEALTH

(CREDITS: THEORYT-4, PRACTICAL-2)

THEORY

LECTURES; 60

Objectives:

- To give students a general knowledge of the principles of health promotion.
- A practice management section dedicated to prevention, fitness, health promotion and wellness.

Outcomes:

Health is a resource for everyday life, not the objective of living; it is a positive concept, emphasizing social and personal resources as well as physical capacities.

Unit 1; Physiology

- Blood- Composition and Function, Anemia, Jaundice
- Blood circulation (Systemic, pulmonary, Coronary and portal)
- Cardiac cycle, Blood pressure
- Structure of Lungs and its function

Unit II: Gastrointestinal Physiology

- Structure of stomach, liver, gallbladder, pancreas and their functions
- Composition, function and of GI secretions and digestion

Unit III: Endocrine Physiology

Actions and disorders of pituitary, thyroid, adrenal and pancreatic hormones.

Unit IV: Renal and Reproductive physiology

- Structure of Kidney and its function
- Physiology of Menstruation and Menopause

Unit V: Promotive Health

- Concept of Health, Disease and its prevention
- Family planning and contraception

Therapeutic Diets Normal Soft clear and full fluid

- Fevers: Acute and Chronic i.
- ii. Obesity
- Types 2 Diabetes iii.
- iv. Hypertensions and CHD
- ٧. Drug abuse and alcoholism

PRATICAL

- Case study of Iron deficiency Anemia, Investigation and diagnosis, Blood indices 1.
- Measurement of blood pressure by using sphygmomanometer. 2.
- Demonstration of procedures of clinical examination to see for pallor, jaundice, 3. edema and dehydration and their importance.
- 4. Basic first aid procedures CPR, Burns.
- 5. Visit to a DOTS center.
- Preparation of a project on Antenatal care for women. 6.

RECOMMENDED READINGS

- Ganong WF (2003). Review of Medical Physiology, 21sted Mc Graw Hill.
- J.E. Park and K. Park (2009). Park's textbook of preventive and Social Medicine, 20th edition. M/s BanarsiDas, Jabalpur.

Ross and Wilson (1973). Foundation of Anatomy and physiology, medical division of Longman Group Ltd.

Yash Pal Bedi (1980). AHandbook of social and preventive medicine ,Atma Ram

and Sons.

Sixth Semester Core Couse 13: RESEARCH METHODOLOGY IN HOME SCIENCE

(CREDITS: THEORY-4 PRATICAL-2)

THEORY

LECTURES: 60

Objectives:

- To achieve within a time frame and with available resources.
- It is a way to systematically solve a research problem.

It helps the students to deal with ethical and practical problems in research work.

Unit1: Research Meaning, purpose and approaches

- Exploration, Description, Explanation
- Scientific method and research
- Research Designs- Experimental and Observation
- Quantitative and Quantitative approaches

Conceptualization and Measurement

- Variable, Concepts and Measurement
- Levels of Measurement

Unit 11: Sampling & Tools

- Role of sampling in research
- Types of sampling

Research Tools and Techiniques

- Validity and reliability
- Interviewing and observational methods

Unit III: The Research Process

- Defining the problem, research questions, objectives hypotheses
- Review of related literature and originality in writing
- Planning the research
- Subjects context and ethics
- Methodology and tools
- Citation formats: in medical sciences, social sciences

PRATICAL

- Exercise in sampling random number table 1.
- Exercise in designing tools and their analysis: interview, questionnaire 2.
- Date collection process: conducting interview, FGDs, case studies 3.

RECOMMENDED READINGS

- Kumar R. (2006) Research Methodology: A step by step Guide for Beginners, Sage Publication, New Delhi.
- Kelinger F.N. and Lee, H.B (2000) Foundations of Behavioral Research 4th Ed. Harcourt College Publishers.
- Kothari C.R. (2008) Research Methodology: Methods and Techinques 2nd Ed. New Age International Pvt Ltd. New Delhi.

• Black J.A & Champion D.J. (1976); Methods and issues in Social Research New York: John Wilely and Sons.

Core Course 14: SOCIO ECONOMIC ENVIRONMENT

(CREDITS: THEORY:-4, PRACTICAL -2)

THEORY

LECTURES: 60

Objectives:

- To know the relationship between society, economy and environment.
- Improve awareness to help social groups and individuals related to environment and development.

Outcomes:

• The natural and environmental resource input function is central to understanding the relationship between economic growth and environment.

Unit -1: Sociological Concerns and Orientation Sociological Orientation

- Society, Culture and institutions
- Family, Kinship and Relationships
- Cultural diversity in contemporary life.

Unit-II: Economics Theory and Environment

- Definition, Scope and Economics,
- Wants- Classification and Characteristics
- Utility- Law of Diminishing, Marginal Utility, Law of Equi- Marginal Utility
 Demand- Law Demand, Elasticity of Demand.
- Engel's Law of Consumption,
- Types and function of money, inflation,
- Types and functions of banks
- Public Revenue.

UNIT IV: INDIAN ECONOMIC ENVIRONMENT

- Constraints on growth: Issue of population, income, distribution, poverty, unemployment, and migration food security.
- Recent development programmes of the Government of India: Jana DhanaYojana, SarvaSikhaYojana.
- Planning: Objective and Achievement

PART 1 PRACTICAL

- Changing families & Relations in Society
- Individuals facing and Conflicts and consensus in Society
- Changing status and roles in varied spaces in family, work the elderly and its implication on the individuals and society across cultures.
- Experience of exclusion on the individual, caste, minority, disability, violence, immigration.
- Religion and Culture
- Caste studies, narrative, films, fieldtrips to different regions, communities like tribal, rural, urban.



PART 11 PRACTICAL

- Field Visit(to do the comparative economics studies)
- Case Studies related to current economics issues (Development and Environmental)
- Data interpretation and analysis (to see the trends of growth and development of certain sectors of vice versa)

RECOMMENDED READINGS

- Abhraham, M. F. (2006). Contemporary Sociology: An introduction to concepts and theories: New York: Oxford University Press.
- Beattie, J. (1964). Other cultures. Cohon and West.
- □ Das, V. (Ed.) (2003) The Oxford companion to sociology and social anthropology: volume 1 and 2. New Delhi: Oxford University Press.
- Johnson, M.H. (2001). Sociology: A systematic introduction. New Dethi: Allied Publishers Limited.
- □Rawat, H.K. (2007). Sociolgy: Basic concepts. New Delhi: Rawat Publications.
- Srinivas, M.N. (Ed.) (1996). Caste: Its twentieth century avatar. New Delhi: Viking Penguin
- Ahuja H.L., 2010, Modern Micro Economics. Sultan Chand & sons
- Dhingra IC and Garg VK, 2010, Introductory Economic Theory, Sultan Chand & Sons
- Mishra & Puri, Recent edition 2014, Indian Economy, Himalaya Publishing House.
- Mithani D.M., 2010 New Edition, Macro-Economics. Himalaya Publishing House
- Sundaram K.P.M., 2010, Introduction to Economies. RatanPrakash

DISPLIINE SPECIFIC ELECTIVE (DSE) DSE1: CHILDHOOD IN INDIA (CREDITS; THEORY-4, PRACTICAL -2)

THEORY

LECTURES: 60

Objectives:

- To understand the childhood life in India.
- To understand the psycho-social dimension of childhood.
- To know the contemporary issues of childhood in India.

Outcomes:

 It enables the student to understand the effect of poverty caste, culture, religion and languages in childhood year.

Unit 1: Introduction of Childhood in India

- Children in India: An overview
- Child hood in mythology, stories and films

Unit II: Multiple contexts of Childhood in India

- Childhood in families
- Growing up without the family
- Childhood in Schools
- Children in extra-familial setting
- Belonging to a minority community

Unit III: Psycho-Social dimensions of Childhood

- Growing up in tribal family
- Childhood in selected family occupations: artists, farmers, weavers

- Growing up in rural setting
- Childhood in urban India
- Being a girl in India

Unit IV: Contemporary Issues of Childhood in India

- Language, religion and culture
- Poverty and disadvantage
- Caste and Childhood
- Children on streets

PRACTICAL

- 1. Personal Social experiences of childhood families
- 2. Beliefs and practices related to children in different communities
- 3. Stories, Folk songs, toys and games from diverse ethic groups
- 4. Depiction of Child hood in Media

RECOMMENDED READING

- Behera D.K. (Ed.) (2007) Childhood in South Asia: New Dehlih, Pearson-longman
- Krinshna L. (1998), Child rearing: An India perspective In A.K. Srivastav (Ed.), Child Development: An Indian perspective Pp 25-55 New Delhi: National Council for Educational Research and Traning.
- Sharma D. (2003) Infancy and Childhood in India, In D. Sharma(Ed.) Childhood,
 Family and Sociocultural changes in India(13-47) New, Delhi, Oxford.

OR

DSE-I- FOOD SCIENCE

Objectives:

1.To know about the composition of food.

2. To know about Preservation Techniques and evaluation of food.

Theory

Unit -1. Introduction to food science.

Definitions, importance and applications.

Basic Terminology used in food Science.

Unit-II- Basic food Microbiology.

Introduction to yeast, mould and bacteria - characteristics and their role in preservation and

Spoilage of food . Hygiene and Sanitation Practices in food Processing and waste disposal.

Unit - III - Preservation Techniques, Principles and their application. .

High temperature, low temperature, removal of moisture, irradiation and additives. .

- Food packaging and labeling: FSSAl, Codex

Unit -IV- Sensory Science.

- Physiological basis of Sensory Evaluation and Sensory Attributes of food.
- Sensory Evaluation: Assessment, Subjective and Objective.
- Unit-V-
- Food laws and Quality Assurance. National and International food laws –
- FSSAI,BIS,AGMARK,Codex and ISO: 22000, ISO:9000,ISO:14000.
- Quality Assurance procedures-GMP,GHP,HACCP
- Practical
- 1.1 -Applications and factors affecting formation of Sols, Gels, Foams and emulsion



- 2-1-Slide preparation and identification of bacteria, years and mould
- II Assessment of hygiene practices of food handles
- 3-1-Preservation of food using different methods(Blanching, Delegdration, Free/ing)
- II Basic Principle Involved in food pressivation using additives.
- 4 I. Sensory evaluation method and their applications
- II- Food analysis (Moisture, PH, Acidity, total soluble solids by refracto meter
- 3-Evaluation of food labels
- Recommended Readings 1-Manay 5 & Shadakaharaswamy をおります。
- Poods-Facts and Principles Wiley Eastern Ltd 2 Srilaksmi (2007)
- Food Science,4th Edition, New Age International
- 3-Sethi Mohini and Rao F(2011) Food science (Experiments and Applications) Indedition. CBS Publishers & Distributer Pyt

DNE-2, TEXTILE, PROCESSING

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(CREDITS: THEORY & PRACTICAL 2)

THEORY

60

Objectives

- To know different type of dyes, techniques of dyeing, theory of dyeing
- To know different method of pretending and adaption of improved technology of printing.
- To know different finishing process applied in dyeing and printed fabrics

Outcomes:

 It enable the student to know different type of dyeing and printing used in fabric to make it more attractive and also expand their knowledge about the different process of dyeing and printing.

Unit 1 : Dveing

- Terminology and theory of dyeing
- Classification of dyes
- Principles of colour fastness.

Unit 2: Printing

- Methods of Printing
- . Block Printing
- Flat Plate and roller printing
- Stencil, Screen (Flat and rotary), Printing
- Transfer Printing
- Styles of Printing Direct, discharge, Digital printing etc.
- Fixation of prints. Ageing, Steaming, Baking wet development
- Washing of printed goods
- Auxiliaries
- Wetting agents, dispersing agents and solvents
- Hygroscopic agenta

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- Miles J. W. C. (1994) Textile Printing 2nd edition. England. Society of Dyers and
- Nekhn S. (2013) Textbook of Fabric Science: Fundamental to Finishing, PHI interest animals &
- Shorm, V.A. (1987) Chemistry of Dies and Principles of Dying. Vol. II Bombay.

DNE 5: INDIAN TEXTH ES HERITAGE

(CREDITS: THEORY-4, PRACTICAL-2)

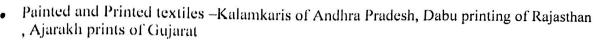
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LECTURES: 60

- to said the different textile erall of India
- To know the case and storage techniques of different traditional textile.
- To small the socio- economic significance of Traditional textile and its popularity in Chatter state
- Enable student to understand the culture and heritage of India associated with
- To encourage and motivate the use of handloom and handicraft product.

Sinds of Ferrile Crafts of India: with reference to history, production centers, techniques, designs, colours and products

- Witten Textiles Benaras Biocades , Jandanis and Baluchars of Bengal, Kani Shawls
- Embronfered Textiles Kambas of Bengal, Kasuti of Kamataka, Phulkari of Punjab, Chikankan of Unar Pradesh, Kashida of Kashinir, Gujarat embroideries



- Dyed textiles -Bandhnis of Rajasthan and Gujarat, Ikats- Patola of Gujarat.
- Bandhas of Orissa

Unit 2: Conservation of Traditional Textile

- Evolution and Socio- economic significance of Khadi, Handloom and Handicraft
- Sustenance of Traditional textile crafts

PRACTICAL

- Traditional Embroideries
- Tie and dye 2.
- 3. Batik
- Block Printing 4.
- Porfolio and product development 5.
- Visit to craft centres.

Recommended Readings.

- Agrawal O.P. 1977 Care and Presentation of Museum Projects -II NRL 1.
- Chattopadhaya K.D. 1995, Handicrafts of India, Wiley Eastern Limited Delhi 2.
- Das Shukla, Fabric Art-Heritage of India, AbhinavPublicatons, N. Delhi 3.

DSE-4: PUBLIC NUTRITION AND DIETETICS (CREDITS: THEORY-4, PRACTICAL-2) **LECTURES: 60**

THEORY Objectives:

- To understand the importance of public nutrition and its role
- To know different nutritional problem faced by people
- To study the different method of assessment of nutritional statues of people.

Out Comes:

It helps the students to know the nutrition during life cycle.

Unit 1 Concept and scope of public nutrition

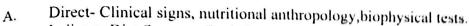
- Definition and multi-disciplinary nature of public nutrition
- Concept and Scope
- Role of Public nutritionist

Unit II: Nutritional problems, their implications and related nutrition programmes

- Etiology, prevalence, clinical features and preventive strategies of Under nutrition
- Protein energy malnutrition, nutritionalanaemias, vitamin A deficiency, iodine deficiency disorders.
- Over nutrition- obesity, coronary heart disease, diabetes.
- Fluorosis
- National Nutrition Policy and Programme- integrated Child Development Services (ICDS), Scheme Mid day Meal Progamme(MDMP), National programmes for prevention of Anemia, Vitamin A deficiency, Lodine Deficiency Disorders.

Unit III: Assessment of nutritional Status

- Objectives and importance
- Methods of Assessment



B. Indirect- Diet Surveys, Statistics.

IV: NUTRITION EDUCATION

- Objectives, principles and scope of nutrition and health education and promotion
- Behavior change communication.

PRACTICAL

- 1. Planning of low cost nutritious recipes for infants, preschoolers, pregnant/ nursing mothers for nutrition education
- 2. Assessment of nutritional status:
- Anthropometry- weight and height measurements
- Plotting and interpretation of growth charts for children below 5 years
- Identification of clinical signs of common nutritional disorders.
- Dietary assessment- FFQ and 24hour diet recall
- 3. Planning and conduction a food demonstration
- 4. Visit to an ongoing nutrition and health promotion programme

RECOMMENDED READINGS

- Wadhwa A and Sharma S (2003) Nutrition in community A Text book, Elite Publishing House Pvt. Ltd New Delhi
- Park K (2011) Park's Text book or Preventive and Social Medicine, 21st Edition, M/S BanarasidasBhanot Publisher, Jabalpur, India
- Bamji MS Krishnaswamy K and Brahman GNC (Eds) (2009), Text Book of Human Nutrition 3rd Edition, Oxford and IBH Publishing Co Pvt Ltd New Delhi,
- ICMR (1989) Nutritive Value of Indian Foods, National Institute of Nutrition, Indian Council of Medical Research, Hyderabad.
- ICMR (2011) Dietary Guideline for Indian- A Manual National Institute of Nutrition, Indian Council of Medical Research Hydrabad.
- Jeliffe DB, Jeliffe ERP, Zarfar A and NeumananCG(1989) Community Nutritional Assessment with special reference to less technically developed countries, Oxford University Press Oxford.
- World Heath Organization (2006) WHO Child growth Standards. Methods and development, length/height for age, weight of age, weight-for length, weight for height and body mass index for age (http://who.int/child growth/standars/en/)

Recommended by BOS members:

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