UNIVERSITY OF MUMBAI

No.UG/147 of 2009. Mumbai 400 032, 8th May, 2009.

The Principal, College of Home Science, Nirmala Niketan, 49, New Marine Lines, Mumbai-400 020.

Madam,

I am to invite your attention to the Ordinances, Regulations and syllabi relating to the Master of Science (M.Sc.) (Home Science) degree course vide Pamphlet No.162 and to inform you that the recommendation made by the Ad-hoc Board of Studies in Home Science at its meeting held on 18th November, 2008 has been accepted by the Academic Council at its meeting held on 13th February, 2009 vide item No.4.21 and that, in accordance therewith, the syllabus for the M.Sc. (Home Science) degree course is revised as per Appendix and that the same has been bought into force with effect from the academic year 2009-2010.

Yours faithfully,

(D. H. Kate) Deputy Registrar. (UG/PG Section)

MUMBAI - 400 032 8th May, 2009

A.C./4.21/13.02.2009

No.UG/147-A of 2009,

MUMBAI-400 032

8th May, 2009

Copy forwarded with compliments for information to:-

1) The Dean, Faculty of Science.

2) The Chairneman Ad-han Board of Studies in Home Science

University of Mumbai



Revised Syllabus for the M.Sc. (Part I & II) Degree Course In

Home Science

(With effect from the academic year 2009 - 2010)

University of Mumbai



Revised Syllabus for the M.Sc. (Part I)

Degree Course

In

Home Science

(With effect from the academic year 2009 - 2010)

M.Sc I (HOME SCIENCE) (Revised Syllabus w.e.f. Academic Year 2009-10)

BRANCH I: FOODS, NUTRITION & DIETETICS

Course Outline

Subject	Theory/ Practical	Internal Marks	University Exam Marks	Total Marks	Periods Per week (of One hour) each)	University Exam hours	Internal/ External
Nutritional Biochemistry	Theory	15	60	75	3	2 1/2	Both
Clinical Nutrition & Therapeutic Dietetics — Paper I	Theory	15	60	75	3	2 1/2	Both
Food Science &Processing	Theory	15	60	75	3	2 1/2	Both
Nutrition through life cycle	Theory	15	60	75	3	2 1/2	Both
Food Science	Practical	25		25	2		Internal
Biochemistry & Food Analysis	Practical	15	60	75	5	5	Both
Research Methods & Statistics	Theory	25	75	100	4	3	Both
Practicum in Research Methods	Practical	50		50	3	<u>. 222</u> - Sa 	Internal
TOTAL				550			

M.Sc. I (HOME SCIENCE) BRANCH I: FOODS, NUTRITION & DIETETICS NUTRITIONAL BIOCHEMISTRY (THEORY)

Marks: 75

This course will focus on Nutrition as a Science that integrates biochemistry from the cellular Inis course will locus on realition as metabolism of macronutrients in the body and how it would relate to nutritional health at the tissue, organ and system level.

Objectives:-

At the completion of this course the student should be able to:

- Describe structure functions and metabolism of macronutrients.
- 2. Describe hormonal and enzymatic modulators to the metabolism of macronutrients.
- 3. Describe the biochemistry and metabolism of the macronutrients during different physiological states.
- 4. List important micronutrients needed as cofactors involved in macronutrient metabolism.
- 5. Explain the metabolic inter-relationship between macronutrients.
- 6. Have knowledge of current research on Nutrition & Metabolis.

Course Content:

NOL

(20)

Unit I a) Basic Chemistry and Classification of Macromolecules w.r.t. carbohydrates, Proteins, Lipids.

b) Interrelationship of

Vit A - ZN

Vit E - Se

Vit C - Fe

Vit D - Ca, P

B-Complex Mn, Mg, Co.

- Unit II a) Digestion and absorption of macromolecules w.r.t. enzyme action and Biochemical mechanism.
 - b) Metabolism of macronutrients carbohydrates, EMP, TCA, Gluconeogenesis, HMP, Glycogen metabolism, Uronic acid pathway Metabolism of Fructose, Galactose.
 - c) Protein General reactions of amino acids, Urea cycle, Glucose-Alanine Cycle, NH3 transport. Biosynthesis of Glutathione, Creatinine, carnitine, heme, neurotransmitters.
 - d) Lipid:- Oxidation and biosynthesis of even C fatty acid Cholesterol biosynthesis.
 - e) Measurement of energy, Laws of Thermodynamis Redox reactions, Electron

Transport chain, ATP, Mechanism of Oxidative phosphorylation Phosphocreatine.

n Inborn errors of metabolism w.r.t. Carbohydrates, lipid, proteins, nucleic

The chemistry of Nucleic Acids, DNA Types of DNA RNA (10)

- (b) DNA & RNA Metabolism DNA Control Disorders of purine, pyrimidine disorders.
- (c) Regulation of Gene expression. Nutrient gene interactions.

[nit IV a) Enzyme chemistry UB Classification, identification of active site, factors affecting enzyme activity Km and its significance, enzyme inhibition, drug-enzyme interactions, enzymes of clinical significance.

b) Nutrient and Drug Interactions. (10)Drug metabolism, drugs as antimetabolites, effect of drugs on nutrient status. Food and drug-nutrient incompatibilities.

(c)Body defense mechanisms.

- Detoxification and role of cytochrome p450.
- Free radicals, antioxidants.

Unit V Hormones: Chemistry, mechanism of secretion, physiological functions of (5) Thyroxine, Catecholamines, Insulin, Glucogon, Corticosteroids, Growth hormone.

Berg J.M. Tynocrko, John, L et at Biochemistry 5th ed. New York W.H. Freeman and Co 2002. Brody Tom. Nutritional Biochemistry 2nd ed. New Delhi El sevier/Reed El sevier India Pvt Ltd. 2004

Chatterjea M.N. Shinde and Rana textbook of Medical Biochemistry 6th ed. New Delhi Jaypee Brothers Medical Oublishers 2005.

Devlin Thomas, M (ed) textbook of Biochemistry with Chm, Corr. New york, John Wiley and Sons Inc. 1997.

Montgomery, rex and others Biochemistry A case oriented Approach St. Loius The C.V. Mosby

Murray, R.K. and others. Harper's Biochemistry 25th ed. Connecticut, Appleton and large Publications.

Nelson D.L. and Cox. M.M. Lehmimnges, Principles o Biochemistry 3rd ed. New York. Worth Publishers Macmullan Press, 2000

Puri Dinesh Textbook of Biochemistry. A Clinically oriented Approach New Delhi B.I. Churchill Livingstone Pvt. Ltd. 2002.

M.SC. I (HOME SCIENCE) BRANCH I: FOODS, NUTRITION & DIETETICS BRANCH I: FOODS, NOTICE DIETETICS -PAPER (THEORY)

Marks :75

system. 2. To exponent employed 3. To improper pathoph nutrition 4. To enab	ide students with an overview of the physiology and functions of se students to the nutritional care process, the role of a nutrition and intervention. Sed in nutrition provision and intervention. But an in depth knowledge regarding prevalence, etiology, diagnostic and intervention interactions, gene — nutrient interactions ysiology, drug nutrient interactions, gene — nutrient interactions and lifestyle management in different disease condition. The students to focus on: advancements in clinical nutrition, emergence and intervention and gresearch in the field masize the importance of nutrition in the prevention of chronic disease the importance of nutrition in the prevention of chronic disease.	osis, and medical, rging modes of
5. To emp	lasize the m-r	NOL
Course Cont	ent jagen en besche de en besche de en ben de folk	
Unit I. Nutrit A) Nu a) b) c) d)	ional care process & Nutritional Support stritional Care process The nutritional care process a detailed study. Role, Skills of a nutritionist and Dietitian Counselling theories and strategies Normal Hospital diet plan. A review of recommended Dietary Allowances for the normal production of the hospital diet based on texture and calories.	- 6
B) Nu En a) b) c) d)	tritional Support: teral Nutrition Access Physical Characteristics Nutrition composition Types of formulae Nutrients of current interest Complications and its management Drug – nutrient interaction Parenteral Nutrition Access	

4

Nutrition and the immune system & Immunity Nutrition and functions of the immune system.

a) Nutrition and functions of the immune system. (6)a) Physiology
Nutrients affecting the immune system at the physiological, cellular and genetic c) Drug Nutrient interactions affecting immune status. d) Nutrients involved in the inflammatory response. d) Nutritional status and management of infection: . HIV - TB - Helicobacter pylori Malaria, Dengue - Food borne infections. B) Nutritional management in Allergies: (2)Diagnosis, management, prevention – with special reference to GM foods. Nutrition and respiratory Health (4) a) Physiology and functions of the respiratory system b) Nutritional Management of c) Asthma d) Chronic obstructive pulmonary disease e) Cystic Fibrosis Unit IV Nutrition in the hypercatabolic stale: (6) a) Physiological, endocrine, metabolic and nutritional alteration in physiological b) Nutritional management of the hypercatabolic patients:c) Burns d) Trauma e) Surgery f) Sepsis (SIRS, MODS) g) Drug nutrient interaction Unit V Nutrition in lifestyle related and Chronic Degenerative Disease (15)A) Weight management: a) Regulation of body weight b) Genetics and body weight Obesity: a) Etiology, Assessment, Classification and Management a) Medical b) Nutritional, Lifestyle management, Role of exercise c) Surgical and complications d) Childhood Obesity. e) Nutrition in exercising obese individuals

5

Underweight: a) Etiology b) Metabolic consequences of starvation c) Management Eating Disorders a) Anorexia Nervous b) Bulimia c) Binge eating disorders. B) Nutrition in Diabetes Mellitus. a) Physiology and exercise functions of the pancreas. (12)b) Etiology, classification, complications and management: c) medical (insulin and OHA) d) Nutritional and Lifestyle Modification. e) Role of exercise f) Management of DM in special condition of infection g) gestational DM h) Nutrition in Athletes and exercising Diabetic patient C) Nutrition in cardiovascular Diseases: a) Physiology and functions of cardiovascular diseases – heart, blood, blood cells, blood vessals. b) Regulation of blood pressure c) Regulation of lipoproteins d) Atherosclerosis:-- Etiology and Risk factors pathophysiology e) A study of complications and its management:-- Myocardial infarction - Hypertension - Congestive Cardiac failure Hyperlipidemia. f) Nutrition in atheletes and exercising patients with hypertension & hyperlipidemia D) Nutrition and metabolic Syndrome (4)A study of prevalence, etiology, risk factors, complications, management. Special

emphasis to preventive role of nutrition and lifestyle.

Merices: (2005). Clinical Nutrition. Blackwell Publishing House.

Mark J.M. (2003) Nutrition Therapy 2nd ed. Helm Publishing Tourishing skills for District (2003) Nutrition Skills for District (2003) More J.M. (2003). Chinean Franction. Blackwell Publishing Ho Market J.M. (2003) Nutrition Therapy 2nd ed. Helm Publishing, Texas Market J. (2003) Nutrition Therapy 2nd ed. Helm Publishing, Texas Market J. (2003) Counselling skills for Dietitians Blackwell D. (2007) Counselling Nutrition Therapy 2nd ed. Helm Publishing Ho Nutrition Fields 2 Co.Fielm Publishing, Texas

(2003) Nutrition Fields 2 Co.Fielm Publishing, Texas

(2003) Counselling skills for Dietitians Blackwell Publishing House
(1997) Counselling Nutrition Humana Press
(1997) Preventive Nutrition Counselling Co.Fields (1997) Resic Nutrition Counselling Co.Fields (1997) Residence (1997) Reside Preventive Nutrition Humana Press (1997) Basic Nutrition Counselling St. 1997) Basic Nutrition Counselling Skill Development Wadaworth Pub. Co.

Mark K. (2007) Basic Nutrition Essentials and Diet Therapy. 9th ed Saundar Diet Therapy. Nutrition Essentials and Diet Therapy. 9th ed. Saunders Pub Co.

Manual Of Dietetic Practice 2nd and Scientific Publication. (1994). The Life Manual Of Dietetic Practice.2nd ed. Saund Scientific Publication Through The Lifecycle. Wadsworth D. J. C. 2002). Nutrition Through The Lifecycle. Wadsworth D. J. C. 2002). Nutrition Through The Lifecycle, Wadsworth Pub Co. Section J. (2002). Clinical Guide To Nutrition and Dietary States J. (2003). Clinical Guide To Nutrition and Dietary States J. (2003). J. (2002). Clinical Guide To Nutrition and Dietary Supplements in Disease of Churchill –Livingstone Pub. Isomet Churchill -Livingstone Pub. R.D. (2003). Nutritional Assessment 3rd ed. M c Graw Hill Pub. (2003). Annual Review of Nutrition vol. 10.000 R.D. (2003). Handle Review of Nutrition vol 19 &20. Annual Reviews, California. McCormic D. (1999). Krause's Food and Nutrition Therapy Saundara B. Mcormic D. (2008). Krause's Food and Nutrition Therapy Saunders Pub. Mahan K.L. (2005). Human Nutrition and Dietetics 9th ed. Churchill Livingstone Pub. (2006). Modern Nutrition in Health and Disease 10th at 1. (2006). Modern Nutrition in Health and Disease. 10th ed. Lippincot William and Wikins. (1997). Nutrition Support -Theory and Therapeutics. Chapman and Hall Soft A.S. (1990). Nutrient Requirement and Pagament 1990. Mt.A.S. (1200). Nutrient Requirement and Recommended Dietary Allowances for Indians Gopalan C. (2000). Nutritive Value of Indian Foods. NIN ICMR Pub. (Opalail . C. (2006). Understanding Normal and Clinical Nutrition. Wadsworth publication Suberlich .H (1999). Laboratory Tests for the Assessment of Nutritional Status 2nd ed. CRC British Nutrition Foundation. (1999). Obesity. Blackwell Science Pub. Zaloga G. (1994). Nutrition in Critical Care. Mosby Pub.

Journals:

Nutrition Reviews American Journal of Clinical Nutrition lournal of American Dietetic Association.

M.SC. I (HOME SCIENCE) BRANCH I: FOODS, NUTRITION & DIETETICS FOOD SCIENCE AND PROCESSING (THEORY)

Objectives:

Marks:75

- 1. To enable the students to understand the chemistry of food components, the chemical and biochemical reactions in foods. biochemical reactions in toods.

 2. To impart a systematic knowledge of basic and applied aspects of food processing and
- technology
- To enable students to become familiar with the quality and safety of food.

Course content:

NOL

- A) water: States of water, water activity, water in food preparation. Unit I
 - Physical aspects of food preparation energy and food energy transfer, mass transfer, state of matter, dispersions, emulsions, gels, foams.
 - B) Carbohydrates: overview, Sugars-properties of sugars, chemical reactions -Hydrolysis, caramelization, maillard reaction. Food Applications: crystalline candies. crystallization, ripening, syrup, sauces, jams and jellies, sweeteners - types, merits and demerits, safety aspects of sweetners. Starch - sturucture, functional properties, Gelatinization, pasting, Gelations, syneresis, retrogradation, dextrinization. Factors affecting gelatinization and gelation. Modified starch, resistant starch. Gums - Functions, sources, applications. Pectic substances, pectin gels. (10)

Unit II

- a) Proteins Overview, hydrolysis, denaturation, Coagulation, Gluten complex development, Gelatin gel, modified meat products, soy proteins, texturised vegetable protein, non conventional sources of protein.
- b) Lipids Overview, crystallinity of solid fats. chemical degradation, oxidative and hydrolytic rancidity, effect of heat, chemical modifications of fats, Hydrogenation, trans fats, functional roles of fats, fat replacements.

Unit III

- a) Enzymes Enzyme inactivation and control, food modifications using microbial & non microbial enzymes, enzyme browning, enzyme utilization in the food.
- b) Food colours Pigments in animal and plant foods, effects of processing ,pH and storage on food colours, food colourants- permitted and non permitted
- c) i)Flavouring principles in different foods flavours of spices, vegetables and fruits, fals and oils, flesh food, milk ii) artificial flavours.
- d) Evaluation of food quality subjective and objective evaluation, Requirements and techniques. Biosenors and E-nose (3)
- e) Food laws and standards., Nutrition and Food labeling

grief overview of general principles of food preservation – heat preservation, cold grief overview of generation, dehydration and concentration and fermentation, cold preservation, ionizing radiation, dehydration and concentration and fermentation. Minimally preservation foods. Use of hurdle technology., Application of Nanotechnology Distriction preservation, longuage of hurdle technology., Application of Nanotechnology, Biotechnology in processing food preservation & processing

tV Processing technology of the following foods:-Processing Millets - Milling of cereals (rice, wheat , corn) & millets (ragi & bajra), (14)Cereals Cereals, fortified cereals Processes involved in certain baked and extruded products using cereals and millets.

products – Processing, elimination of toxic factors soyabean products.

Oil seeds - oil extraction, purification, fully refined oil, margarine, peanut butter, salad dressings.

Fruits and vegetables - Changes during ripening storage, post harvest processing techniques, dehydrated, canned, pickled and frozen vegetables, fruit processings - jams, jellies, mamalades, puree, pastes, powders, beverages.

Milk and Milk products - Milk processing, pasteurization, homogenization, standardization. Milk products, cheese, butter, cream, ghee, milk owder, ice cream concentrated milk, skim milk, lactone, Vit. D milk.

Egg, Poultry fish and meat.

Quality of eggs, deterioration of eggs, egg processing – dehydration and freezing, egg products. Poultry processing and Tandoor chicken

Fish spoilage in fish, canned, dehydrated and frozen, fish meal, fish protein concentrate fish oils. Meat - Meat tenderization ageing and curing, sausages.

Sugar and Jaggery - manufacture of sugar., HFCS

b) Convenience foods & ready to eat foods.

(1)

References:

Mcwillians, M (2007). oods: experimental Perspectives 5th ed, New Jersey: Macmillar publishing co.

N.S. Manay and M. Shadark Sharaswamy (1997) Foods: facts and principles New age International publishers, New delhi.

Potter, N.N. and Hutchkiss J.H (1997) aFood Science 5th ed New delhi: CBS Publishers and Distributors.

Subbulakshmi, G and Udipi, S.A. (2001) Foods processing and preservation New delhi; New Age International (P) Ltd. Publishing.

Swaminathan, M (1995) Food Science Chemistry and experimental food. The Bangalore printing and Publishing co. Ltd.

Rick Parker (2003) Introduction to Food Science. N.Y Delmar Thomson learning. Scottsmith and Hui Y.H (Editiors) 2004 Food Processing – Principles and applications Blackwell Publishing, London.

Borvers, J. (1992) Food Theory and application (2nd ed) New York Maxwell MacMillan International edition.

Vacklavick V and Christian E (2003). Essentials of Food Science. Kluwer Aca demic/ Plenum Publisher N Publisher, New York

M.Sc. I (HOME SCIENCE) BRANCH I: FOODS, NUTRITION & DIETETICS NUTRITION THROUGH THE LIFE CYCLE (THEORY)

Marks: 75

Objectives:	
 To understand the changes in Human body composition during different stages of life cycle. To study the influence of Nutrition on man during the different stages of life cycle. To be aware of, and update the knowledge in the field of nutrition as applied durin cycle. 	life. Is the life
Course Content:	
Unit I A.) Basics of Nutrition – A brief overview of functions, sources & deficience and Micronutrients B) Balanced Diet	y of Mac ₁₀ (5) (2)
Nutrition during Pregnancy a) Reproductive Physiology (Male and Female) in brief. b) Nutrition related disruptions in fertility (under and over nutrition) c) Physiology of pregnancy d) Effect of Nutritional Status on pregnancy outcome. e) Nutritional requirements and dietary guidelines f) Nutrition related complications g) Complications of pregnancy h) HIV/AIDS during pregnancy – Dietary concerns i) Role of Exercise & Fitness j) Adolescent Pregnancy	(15)
Unit II B) Nutrition during Lactation a) Physiology of Lactation b) Human milk composition c) Nutritional requirements & dietary guidelines d) Benefits of Breast Feeding e) Galactogouges f) Lactation Management in Normal & Special conditions	(11)
A) Nutrition in infancy Physiological development, Motor, Cognitive development. a) Energy and nutrient needs.	(6)

(8)
(10)
(8)
(10)

Neuromuscular & skeletal functions Renal and cardiac function Immuno competence

Bennion H (1979) Clinical Nutrition, New York Rapper and Raw Bennion H (1979) Clinical Nutrition, Donald, B, Mc Colmick, Dennis M. Bier (1997) Annual review of Nutrition (vol. 19) Donald, B, Mc Colmick, Dennis M. E. (1998) Modern Nutrition in health and discountered to the chile of the color of the chile of the Donald, B, Mc Colmick, Dennis M. Blet (1998) Modern Nutrition in health and disease. Philadelphia Goodhart, R.S.S and Shils, M.E. (1998) Modern Nutrition in health and disease. Philadelphia

Lea and Febiger.

Lea and Febiger.

Groff, J.L and Gropper SS (1999) Advanced nutrition and human metabolism, Belmount CA

Wads worth/Thomson Learning.

Wads worth/Thomson Learning.

Jackson, marc S. (1997) Adolescent nutritional disorders. New York: The New York

Academy of Science.

Academy of Science.

Academy of Science.

Mest/Wadsworth. International Thomson Pub. Co.

Judith E. Brown (1998) Nutrition now. West/Wadsworth. International Thomson Pub. Co. Judith E. Brown (1996) National Stamp, Kranse's Food Nutrition and Diet Therapy.

L. Kathleen Mahan, Sylvia Escott-Stamp, Cloop Omega – 3 fatty acids in health and diet Therapy. L. Kathleen Manall, Sylvia Book (1990) Omega – 3 fatty acids in health and disease.

Lee Robert S and Carol Marcus (1990) Marcus (1990) Krause's Food Mutrition and disease. Lee Robert S and Carol Marcus (1990) Omoga Lee Robert S and Carol Marcus (1990) Omoga Mahan K.L. Stump S.E. – 11th ed. (2004) – Krause's Food Nutrition and diet Therapy – Saunden - ELSEVIER USA.

- ELSEVIER USA.
Wardlawy G.M. Insel P.M. Seyler M.F. (1994) Contemporary Nutrition; Issues and insights St.

Lopuis Masby.

Lopuis Masby.

Warthington R. Vermecrush J. Willams S (1985) Nutrition in pregnancy and Lactation St. Louis

Times Mirror. Mosby College Publishing.

Times Mirror. Mosby College 1 dollars (1990) omega 3 Fatty Acids in health and disease – Marcel dekker Inc.

Brown J.E. Issaes sugarman J, (2002) Nutrition through the life cycle – Wadsworth Thomson learning.

2 iegler, EE and Filer L.J (1996) present knowledge in nutrition Washington D.C. International Life Science institute.

Journals to be referred:

Journal of American Dietetic Association USA - The American dietetics Association. Nutrition reviews, New York Springton Verlog

The American - Journal of clinical Nutrition - USA Official journal of the American Society for Clinical Nutrition Inc.

The Indian journal of Nutrition and dietetics.

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M.Sc. I (HOME SCIENCE) BRANCH I: FOODS, NUTRITION & DIETETICS FOOD SCIENCE (PRACTICAL)

Marks: 25

To guide the students in their quest for the scientific principles involved in the attainment of food quality. of food quanty.

of food quanty.

To observe and identity physical and chemical changes underlying the preparation to of foods. diverse of foods.

Course Content:

- Sensory Evaluation of foods. Threshold concentrations of primary tastes.
 - b) Effect of Temperature on taste.
 - c) Identification of samples through
 - d) Difference Testing
 - e) Descriptive testing
 - f) Affective tests.

2. Solutions and Ice crystallisation a) Effect of formula and procedure on crystal size of frozen deserts.

3. Sugar Cookery

- a) Tests for stages of sugar cookery
- b) Effect of dry heat on sucrose.
- c) Crystalline and Non crystalline candies.
- 4. Temporary and Permanent emulsions in salad dressings.
 - a) Effect of Stabilizers and Emulsifiers in salad dressings.
 - b) Comparisons of low fat and high fat French dressing.
 - c) Preparation and comparison of Mayonnaire with variations.
- 5. Principles that maintain High quality fried foods.
 - a) Smoke point of different fats and oils.
 - b) Effect of temperature on fat absorption.
 - c) Effect of Formulation on fat absorption.

 - e) Comparision of Testure, flavour and mouthful of food products using fat substitutes (if available).

6. Cereals and Flours.

a) Gelatiaisation of Starch.

a) Gelatiaisation of different cereals for water absorption and consistency.

b) Comparison of - different methods of cooking rice b) Comparison of - different methods of cooking rice
c) Comparison of - different methods of cooking rice

- different varieties of rice
- d) Starches as thickening agents.

a). Effect of heat and acid on cooking of milk. 7. Milk and Mill products.

b) Effect of Gums on milk gelation. b) Effect of Guins on hims graphilizers in cream and whipped toppings.
c) Effect of fat content, pH stabilizers in cream and whipped toppings.

d) Differences between Natural and Processed cheese.

8. Eggs.

gs.
a) Denaturation and co-agulation of egg proteins in a variety of egg products. b) Coagulation and gelation in Custards.

- c) Egg white foams Volume and stability.
- 9. Gelatin
- a) Effect of Temperature of liquid.
 - b) Effect of proteolytic enzyme
 - c) Effect of whipping.
- 10. Pigments and Pectins in Fruits and vegetables.
 - a) Identification colour and texture changes on select vegetables after heat treatments, and treatment with acid and alkalines.
 - b) Gel forming properties of natural pectin in fruits.

Mc Williams Margaret (2001) - Foods - Experimental Perspectives - fourth edition, Prentice

Lawless Harry, Hildegarde Heymann (1998), Sensory Evaluation of food - Principles and practices, Kluwer Academic/Plemer Publishers.

Weaver Connie (1996) - Food chemistry Laboratory - a manual for experiemental foods, CRC press Inc. USA.

Jameson Karen (1998) - Food Science - A laboratory Manual, Prentice Hall Inc. - New Jersey.

M.Sc. I (HOME SCIENCE) BRANCH I: FOODS, NUTRITION & DIETETICS BIOCHEMISTRY & FOOD ANALYSIS (PRACTICAL)

Theoretical knowledge remains incomplete unless complimented by a course in practicals which laboratory techniques common to both basic and applied food characteristic is true is taught to students. Objectives: Theoretical knowledge techniques common to both basic and applied food chemistry & which laboratory is taught to students. in wind is taught to students.

hiochemistry is tanged to understand the principles behind analytical techniques practicals help to understand the appropriate analytical techniques practicals need the appropriate analytical technique. To select and standardize the appropriate analytical technique.

To select analytical proficiency in the laboratory pemonstrate practical proficiency in the laboratory

Learn to manage time effectively. Learn to manage of the Learn to manage of the sequipped to work in a food industry or a clinical biochemistry laboratory.

Course content:

1. Techniques

a) Standardisation of acids and alkalies a) preparation of buffers and indicators. Use of pH meter

c) Paper chromatography of amino acids, sugars.

c) rapel dispersion of a second control of the cont

e) Agarose gel electrophoresis of serum proteins.

2 Isolation, Partial purification, calculation of % yield.

a) Amylase from sweet potato and study of optimum pH, Km

b) Pectin from applies/ bananas/ oranges

c) Starch from potato

d) Cholesterol from egg-yolk

e) Essential oils from orange peel

f) Curcumin from turmeric

3. Food Analysis

a) Estimation of Cellulose

b) Estimation of Methionine in foods

c) Estimation of Lycopene from tomatoes

4. Biochemistry

a) Estimation of calcium from serum by Trinder's methods

b) Phosphorus by Fiske - Subbarrow method

c) Serum Iron of Dipyridyl method

d) Serum Creatinine by Jaffe's method

e) Serum uric acid by caraway

f) Serum Blood urea Nitrogen

g) Serum Cholesterol, Triglycerides

h) Serum Bilirubin...Evelyn-Malloy

- Urine Analysis Detection of abnormal Constituents.
- 6. Enzyme Chemistry
 - a) SGOT-SGPT
 - b) Alkaline Phosphatase
- Hematology
- a) Estimation of Hb by Sahli's/Drabkin's method
 - a) Estimation of Hb by Sahii S/Diabkii Count.
 b) Demonstration of ESR, PCV, Bleeding Time, Clotting time, RBC, WBC count.

References:
Dandekar Suchets, P. Rane S.A Practicals & Viva in Medical Biochemistry, New Dehi Elsevier/Reed Elsevier India Pvt Ltd. 2004.

Elsevier/Reed Elsevier India Pvt Ltd. 2004. Publishing House 2003.

Publishing House 2003.

Jayaram J., Laboratory Manual in Biochemistry, New Delhi, Wiley Eastern Ltd. 1981 Jayaram J., Laboratory Maintai in Distriction of Fearson, D. (1970). Chemical Analysis of foods, (6th Ed), London, T.A. Churchill. Pearson, D. (1970). Chemical Analysis of 100ds, (5 22), 200 Bombay. Tata Mc Graw-Hill Pub Plummer, David. T., Introduction to Practical Biochemistry. Bombay. Tata Mc Graw-Hill Pub Co. Ltd. 1979.

Co. Ltd. 1979.

S. Sadasivan, A. Manickam. Biochemical Methods, 2nd ed. New Age International (P) Limited Publishers 2003.

Publishers 2003. Varley, Harold & others. Practical Clinical Biochemistry. 5th Ed. Delhi, CBS Publishers & Distributors 1980.

M. Sc. I (HOME SCIENCE)

BRANCH II: HUMAN DEVELOPMENT

				FLOAM	IENT		
Subject	Theory/ Practical	Internal Marks	University Marks	Total Marks	Periods /Week (of One hour) each)	Univer -sity Exam Hours	Internal/ External
ixides In Education	Theory	15	60	75	3	2.5	Both
Advanced Study of Advanced Study of Theories of Human Theories and Rehaviour and Rehaviour and Revelopment	Theory	25	75	100	4	3	Both
Advanced Study of Counselling And Psychological Testing	Theory	10	40	50	2	1.5	Both
Organisational Behaviour And Assessment	Theory	10	40	50	2	1.5	Both
ECCE Practicum	Practical	75	3 - 1 - 1 - 0 - 1	75	5	Lie	Internal
Counselling Practicum	Practical	25	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	25	2	20 45 C	Internal
Psychological Testing Practicum	Practical	25	- 75 <u>d</u> 18.44	25	2	-	Internal
Research Methods And Statistics	Theory	25	75	100	4	3	Both
Practicum in Research Methods	Practical	50	20 - <u></u> 4	50	3		Interna
TOTAL				550	ni lotalia	le le back	

M.Sc. I (HOME SCIENCE) BRANCH II: HUMAN DEVELOPMENT ISSUES IN EDUCATION (THEORY)

Marks:

Ohio	ectives:
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1. To facilitate in students a visionary approach to education.

- 1. To facilitate in students a visionary approach.

 1. To facilitate in students a visionary approach.

 2. To introduce, discuss and reflect on the current issues in early childhood education, school and higher education with special reference to the Indian context. To introduce, discuss and terror with special reference to the Indian context,
- education, and higher education with special education
- education.

Course Content:

NOL

(10)

Unit I Introduction

- What is education?
- What are the goals in education?
- What are the goals in education.
 Boards of Education and their relevance in the Indian context (ICSE, CBSE, SSC, B
- What is the vision we must have of education?
- What is the vision we have a superior with the what is the vision with the vision with the what is the vision with the vi S.Radhakrishnan, J. Krishnamurti)
- Education as conceived by great non-Indian thinkers (e.g., Plato, Aristotle, J. J. Rousseau, J. Dewey, F. Frobel, and M.Montessori).

Unit II Issues in Infancy and Toddlercare Programmes

(10)

- Goals
- Daycare/group care (quality, impact, concerns)
- Home-based care
- Role of government and special bodies

Unit III Issues in Preschool Education

(10)

- Goals, assessment; roles of children, teachers and parents in preschool
- Role of government and special bodies
- Model programmes/approaches in education/quality indicators
- Developmentally-appropriate practices etc.
- Using children's literature
- Preparation for transition,
- Disciplinary techniques etc.

July Issues in School Education Goals, assessment Goals, assessment, promotion/retention

Role of teachers and parents in school

Role of government and special bodies

Learning with computers

promoting reading Innovative teaching-learning activities

Multiple intelligences

Multiple Multiple Multiple Model programmes, integrated classrooms, academic stress, coaching classes, disciplinary techniques etc.

(15)

(20)

V Issues in Higher Education

Role of government and special bodies

Privatisation of higher education

Globalisation in education

Distance learning

Affirmative action/reservation policy

Quality of higher education in India, assessment and accreditation

Job opportunities, brain drain et.

References:

Current Articles from Journals Such As: Young Children, Childhood Education, Harvard Educational Review, Journal of Research in Childhood Education. Annual Editions Of NAEYC's Early Childhood Education

(ar, J.F., & Harris, D.E, (2001) Succeeding with Standards. Linking curriculum, assessment and action planning. Alexandria, Virginia: Association for Supervision and Curriculum Development.

Hildebrand, Verna. (1993) Management of Child Development Centers. New York: Macmillan.

Lefrancois, G.R. (1999) Psychology of teaching. Belmont, CA: Wadsworth / Thomson Learning

Nager, N., & Coleman, M. (2000). Revisiting a progressive pedagogy: the developmental interaction approach. Albany N.Y: State University of New York Press.

White, C. S., & Coleman, M. (2000) Early childhood education: Building a philosophy for leaching. Upper Saddle River, New Jersey: Prentice Hall.

M.Sc. I (HOME SCIENCE) BRANCH II: HUMAN, DEVELOPMENT ADVANCED STUDY OF THEORIES OF BEHAVIOUR AND DEVELOPMENT BRANCH II: HUMAN DEVELOPMENT

Marks:

Objectives

1. To have students construct advanced knowledge of the theories of human behavious and societal events/contents. development:

(a) comprehend the relevance of personal and societal events/contexts in the construction of a theorist

(b) analyze the major contributions of a theorist

- (c) identify and address the major criticisms of a theory
- (d) examine related research and/or applications
- (e) study extensions/new directions
- 2. To develop in students an appreciation for primary literature.
- To develop in students an appropriate theories of human behaviour and development.
 To introduce the student to the latest theories of human behaviour and development.

Course Content:

NOL

(2)

Unit I. Introduction and Overview

- Overview of the course
- · Concepts/definitions of theories, models, paradigms
- · Role a theory in advancement of knowledge
- Process of theory development
 - o The role of the context in theory development
 - A theory as an evolving phenomenon: across the life-time of a founding theorig and across generations of scholars

Unit II. Classic Theories of Development: The Psychoanalytical Perspective

(10)

1. Sigmund Freud

- Relevance of sociohistory (both personal and societal) in theory construction
- Overview of key concepts
 - Advanced study of psychosexual development and the life and death instincts
 - Advanced study of the unconscious (primary literature)
 - Justification for the concept of the unconscious
 - The dynamics of repression
 - Psychoanalysis
 - Role of the unconscious in psychoanalysis
 - o Illustration using one of Freud's case histories (primary literature)
 - Psychopathology of everyday life (primary literature)
- Interpretation of dreams
- Major criticisms; major contributions

, Neo-Freudians Anna Freud Child psychoanalysis

Nature of anxiety and defense mechanisms Sudhir Kakar's use of psychoanalysis in understanding Indian culture

Classic Theories of Development: Break-Aways from Freud

(16)

Gustav Jung Relevance of personal and societal events/contexts in the construction of the theory (primary literature) Overview of key ideas

The personal and impersonal/collective nature of human personality (the collective unconscious, ego, shadow, anima, animus, persona, archetypes)

Advanced study of the Jungian perspective of the unconscious: the collective unconscious; related ideas such as synchronicity, significance of dreams, and, symbolism in art and religion (primary literature)

. The nature of human development

. Personality types

Related research and applications; new directions

. Major criticisms; major contributions

1 Erik Erikson

- · Relevance of personal and societal events/contexts in the construction of the theory (primary literature)
- · Overview of key ideas
- . The epigenetic chart and psychosocial stages (primary literature)
- Related research and applications; new directions
- Major criticisms; major contributions

littly. Revised Classic Theories of Development: Neo-Behaviorism

(5)

1. Albert Bandura

- · Historical background: overview of classical and operant conditioning and major criticisms
- · Role of context in theory development: context of changing paradigms
- · Overview of key changes in Bandura's approach to human learning
- · Advanced study of modeling and related concepts (primary literature)
- The nature of contextualism
- · Related research and applications; new directions
- Major criticisms; major contributions

Units V & VI. Classic Theories of Development: The Growth of Thought, Language, and

1. Jean Piaget

- Role of context in theory construction Role of context in theory constitutions and epistemological conclusions (primary literature)

 Biological presuppositions and epistemological conclusions (primary literature)
- Illustration of the epigenetic point of view (primary literature)
- Advanced study of assimilation and accommodation (primary literature)
- Factors of development (primary literature)
- Stages of cognitive development
- Related research and applications; new directions
- Major criticisms; major contributions

2. Lev S. Vygotsky

- Role of context in theory construction
- Development of thought and language
- Key generalizations about development
- Related research and applications; new directions
- Major criticisms; major contributions

3. Lawrence Kohlberg

- · Role of context in theory construction
- Overview of key ideas
- Stages of moral development
- · Related research and applications; new directions
- · Major criticisms; major contributions

Unit VII. Contemporary Theories of Human Behavior and Development: Ecological **Perspectives**

1. Urie Bronfenbrenner

- Relevance of personal and societal events/contexts in the construction of the theory (primary literature)
- Defining properties of the bioecological model (primary literature)
- Microsystemic influences in development (primary literature)
- Beyond the microsystem (meso-, exo-, macro-systemic influences in development) (primary literature)
- Related research and applications; new directions
- Major criticisms; major contributions

2. David Magnusson and associates (primary literature)

- Role of context in theory development
- Overview of key ideas in person-context interaction theories

Traditional and contemporary views of the role of environment in development O Unidirectional causality

o Classic interactionism o Holistic interactionism

principles in the functioning of the person-environment system

Principles The environment in the person-environment system The person in the person-environment system

The person in the person-environment system Adaptive, maladaptive, and protective factors in the person-environment system Related research and applications

Major criticisms; major contributions

Unit VIII Contemporary Theories of Human Behavior and Development: Life Span Approaches (9)

Glen H. Elder (primary literature) Role of context in theory development

Overview of key ideas with regard to life course theory

Social pathways and the individual life course (primary literature)

Trajectory, transition and duration (primary literature)

Human agency in choice-making and actions (primary literature)

Constructing one's life course (primary literature)

. Related research and applications

· Major criticisms; major contributions

1 Paul B. Baltes and associates (primary literature)

· Role of context in theory development

· Life-span theories: key concepts and five levels of analysis including the following

Life-span development

Development as selection/specialization and selective optimization in adaptive capacity

Development as gain/loss dynamic

o Plasticity

Ontogenetic and historical contextualism

Related research and applications

o Life-span theory and cognitive development

Life-span theory and development of self and personality

· Major criticism; major contributions

Unit IX. Contemporary Theories of Human Behavior and Development: Other Systemic Approaches (9)

1. Seymour Wapner and associates (primary literature)

Role of context in development of Holistic, Developmental, Systems-Oriented Perspective

Key ideas in Wapner's Holistic, Developmental, Systems-Oriented Perspective

Organismic and transactional worldviews

o Organism-in-environment system and levels of integration

- o Holism
- Equilibration tendencies o Aspects of persons and of environments (structural and dynamic)
- Process versus achievement
- Constructivism
- Multiple worlds
- Adaptation
- Research and related applications
- Major criticisms; major contributions

2. Esther Thelen and Linda B. Smith (primary literature)

- Role of context in development of Dynamic Systems Theories
- Key ideas in Dynamic Systems Theories
 - Replacing the mind-as-computer or the machine metaphor
 - A mountain stream as a root metaphor
 - A Dynamic Systems Approach to development
 - The brain as a dynamic collective
 - Experience-dependent plasticity
- Research and related applications
- Major criticisms; major contributions

Unit X. Contemporary Theories of Human Behavior and Development: Other New Approaches

(9)

1. Jochen Brandtstädter (primary literature)

- Role of context in development of action theories
- Key ideas in Action Theories of development
- Personal regulation of developmental processes
- The concept of action
- Developmental plasticity
- Intentional self-development and personal control over development
- Research and related applications
- Major criticisms; major contributions

2. Peter L. Benson and associates (primary literature)

- · Role of context in theory development
- Positive Youth Development Theory: Key ideas
- Research and applications
- Major criticisms; major contributions

References:

Baldwin, A. (1980). Theories of human development. New York: Wiley.

Bronfrenbrenner, U. (1980). The ecology of human development. Chicago: University Press.

Erikson, E. H. (1963). Childhood and society. New York: W.W.Walton.

Damon, W. (Series Ed.) (1998). Handbook of child psychology. Lerner, R. M. (Vol. Ed.) Volume one: Theoretical models of human development. NY: John Wiley.

Damon, W. (Series Ed.) (2006). Handbook of child psychology. Lerner, R. M. (Vol. Ed.) Volume one: Theoretical models of human development. NY: John Wiley.

Freud, S. (1905,1909/1990). Vol. 8 Case histories. London: Penguin Books.

Freud, S. (1955/1991). Case histories 2. Penguin Freud Library, Vol.9. London: Penguin Books.

Fromm, E. (1980). The greatness and limitations of Freud's thought. London: Jonathan Capee.

Green, M. (1989). Theories of human development: A comparative approach. New Jersey: Prentice Hall.

Jung, C. G. (1961/1995). Memories, dreams, reflections. London: Fontana Press.

Lerner, R. M. (2001). Concepts and theories of human development. Psychology Press.

Mussen, P. H. (Ed.). Handbook of child psychology. Vol. 1: History, theory and methods. New York: John Wiley.

Piaget, J. (1970/1983). Piaget's theory. In P.H. Mussen (Ed.), Handbook of child psychology. Vol.1: History, theory and methods, pp.103-128. New York: John Wiley.

Thomas, M. (2000). Comparing theories of child development. (5th Ed.). California: Belmont.

M.Sc. I (HOME SCIENCE) BRANCH II: HUMAN DEVELOPMENT ADVANCED STUDY OF COUNSELLING AND PSYCHOLOGICAL TESTING (THEORY)

Marks:

Objectives:

- To have students develop insights with regard to the counselling process, various counselling approaches and applications.
- 2. To have students construct advanced knowledge with regard to various psychological tests.
- To have students construct advanced to the ethics and current issues in counselling and psychological testing.

Course Content:

NOL

Unit I Introduction and overview of counselling

- a) Concept of counselling
- b) Core conditions of a helping relationship
- c) Key characteristics of an effective counsellor
- d) General Model for Counselling/Process of counselling (General Model for Counselling)
- e) Skills Used In Counselling
 - Problem exploration and clarification (attending, active listening, accurate empathy, client disclosure and exploration)
 - · Developing new perspectives and setting goals (summarizing, information giving advanced empathy, confrontation, immediacy, goal setting)
 - · Action (helping clients identify possibilities/ programmes, implementing and evaluating the same)

Unit II A. Counselling approaches in Individual/Group Counselling

(10)

- (a) Insight oriented (Psychoanalytical, Client Centered, Play Therapy, Gestalt) and Action oriented (Behavioural, Rational Emotive Behavioural Therapy, Reality Therapy, Transactional Analysis, Solution - Focused Brief Counselling, Bibliotherapy)
- (b) Specialized areas in counselling (Child/school counselling; marriage, family and sex counselling; gerontological counselling; career counselling; health counselling.)

Unit II B. Current issues in counselling; Latest trends in counselling

(4)

Unit III A. Overview of the Field of Psychological Testing

- (a) Characteristics of Psychological Tests (Concepts of Reliability, Validity, Item Analysis, Test Construction, Test Administration)
- (b) Major contexts of current test usage (e.g., Role of tests in counselling)

Unit III B. Contemporary Issues In Test Use

(4)

- Ethical and Professional issues
- Selection of appropriate tests
- Relevance of diagnosis in counselling
- Reporting psychological assessment
- General issues in using tests with special groups

Testing and the law

Future of psychological testing

Unit IV Assessment in Education and/or Counselling Settings

(14)

Assessment of Child Adjustment

· Assessment of Self-esteem/Self-perceptions

Assessment of Social Maturity and Social Competence

Assessment of Intelligences, Cognitive Styles, Creativity

· Assessment of Personality

Achievement Testing

Assessment of Aptitude; assessment for the purpose of Vocational Guidance

Current issues; latest trends

Unit V Assessment in the Clinical and Healthcare Setting

(5)

Projective tests in clinical practice

• Introduction to types of assessment in Healthcare settings (e.g., Test Anxiety Questionnaire, Life Experience Survey, Measures of Coping, Measures of Social Support, Marital Quality Scale, Assessment of Quality of Life.)

· Current issues; latest trends

References:

Anastasi, A & Urban, S. (2002). Psychological testing (7th edition) Delhi: Pearson Education (Singapore) Private Limited.

Capazzi, D & Cross, D. (1989). Counselling and psychotherapy: Theories and interventions (2nd edition) New Jersey: Prentice Hall.

Cohen, R,J; & Swerdlik, M.E. (2005) Psychological testing and assessment: An introduction to tests and measurements. New York: McGraw-Hill.

Cory, G. (2000). Theory and practice of group counselling (5th edition). California: Brooks/Cole Egan, G. (2002). The skilled helper: A systematic approach to effective helping (7th edition). Pacific Grove, Ca: Brooks/Cole

Gibson, R; & Mitchell, M. (1999) Introduction to counselling and guidance (5th edition) New Jersey: Prentice-Hall Inc.

Janda, N. H. (1998). Psychological testing: Theory and applications. Massachusetts: Allyn Bacon Kaplan, R.M; & Saccuzo, D.P.(1997). Psychological testing. California: Brooks/Cole

Kotler, J.A. & Brown, R.W. (2004). Introduction to therapeutic counselling: Voices from the field. (5th edition) California: Brooks/Cole

Patterson, L.E; & Welfel, E.R. (2000). The counselling process. California: Brooks/Cole

Van Zandt, Z; & Hayslip, J. (2001). Developing your school counselling programme. A handbook for systematic planning. Pacific Grove, Ca: Brooks/Cole

Watkins, C.E. & Cambell, V.L. (2000). Testing and assessment in counselling practice New Jersey: Lawrence Erlbaum.

M.Sc. I (HOME SCIENCE) BRANCH II: HUMAN DEVELOPMENT ORGANIZATIONAL BEHAVIOUR AND ASSESSMENT (THEORY)

Marks:50

Objectives:

- jectives:

 1. To help students understand the application of psychology in an organizational set-up.

 1. To help students with the individual, group, and organizational perspective. 1. To help students understand the appropriate the large of the large
- organizational behaviour. organizational behavious.

 3. To expose them to the measures for assessing organizational effectiveness.
- To expose them to the tests relevant in an organizational set-up.

Course Content:

Unit I. Introduction

(4)

- Definition of organizational behaviour,
- Classification of organizations,
- Organizational context, characteristics and culture,
- Significance of organizational behaviour,
- Emerging trends, contemporary challenges, and future prospects

Unit II. A micro-perspective of organizational behaviour

(9)

- The perceptual process and impression formation,
- Personality (self-concept, self-esteem, self-efficacy) and attitude (formation and change).
- Job satisfaction (meaning and influence),
- Motivation (brief review of motivational theories traditional and contemporary).
- Motivating performance through job design (conceptual model of job design and some ioh redesigning options) and goal setting (impact of goal setting and its application to systematic performance),
- Organizational reward system, steps in organizational behaviour modification, application of behavioural management

Unit III. The Dynamics Of Organizational Behaviour

(12)

- Role of formal organizational work groups
- Role of informal work groups (nature, significance, types, problems, management) quality circle (definition objectives, structure, performance),
- Team work (definition, significance, types, stages, team building, effectiveness of team work)
- Leadership (significance, traits, skills, emerging theories) supervision (task, extent, status, problems, making it more effective)
- Group dynamics and its implications,
- Conflict in Organisations (intra-individual, inter-individual, inter-group, occupational conflict), approaches to conflict management
- Stress meaning, nature, causes and effects, burnout- implications and remedies

Communication - emergence of communication technology, goals of organizational Communication, types of communication and communication networks, communication and management, communication in groups, strategies for making communication more effective

Unit IV Organizational Health and Effectiveness

- Career stages, developmental interventions appropriate for each stage, implementation of successful career management systems, relevance of a mentoring programme in an organization
- Concept of work life issues, conflict, balance and integration, types and benefits of work life initiatives, importance of family friendly workplace, strategic approaches to work life integration
- Meaning of organizational climate and culture, need for and strategies of organizational change, coping with resistance to change, meaning of, approaches to and reinvention in organizational development, maintaining overall organizational health and effectiveness

Unit V. Assessment in Organisations

(15)

(a) Organizational effectiveness

- . The relevance of an assessment center,
- Overview of the essential elements of an assessment center (tools and techniques employed in the assessment center, assessment center schedule, using assessment performance information to improve organizational performance, training assessors in the center, methods employed in assessment like presentation, discussion, role play, demonstration, critical and in basket incident process, case - study method)

(b) Competency Based Interview and Group Discussion Strategies

- Interview styles, approaches, and types,
- Preparation for the interview,
- The art of interview questioning,
- Interview rating scales,
- Points to observe in a group discussion,
- Relevant open ended group discussion questions,
- Interpretation of group discussions

(c) Assessment through Testing

Categories of psychological tests relevant in an organizational set up,

 Understanding tests (tapping the following areas: personal effectiveness, locus of control, motivational level, interpersonal needs, conflict management styles, role clarity, job satisfaction, emotional quotient, coping with stress, organizational climate and quality of work life)

Training testers in selecting, administering, scoring and interpreting tests

References:
Agarwal, T (2007). Strategic human resource management. New Delhi: Oxford University Press Agarwal, T (2007). Strategic human resonant Res

Publishing House

Publishing House

Dwivedi, R.S. (2001). Human relations and organizational behaviour: A global perspective (state of the continuous state of the continuous edition). New Delhi: Macmillan India Inc.

Luthans, F (1995). Organizational behaviour (7th edition). New York: McGraw Hill Inc

Luthans, F (1995). Organizational vendority of the Luthans o Thomson South Western

Pareek, U. (1997). Training instruments in human resource development. New Delhi: Ta McGraw Hill Publishing Company Limited.

Shermam, G (2004). Competency based human resource management: A strategic resource for competency mapping, assessment and development centers New Delhi: Tata McGraw Hill

Stanton, N; Hedge, A; Brookhans, K; Salas, E; Hendrick, H (2005). Handbook of human factor and ergonomics methods. Boco Raton: CRC Press.

M.Sc. I (HOME SCIENCE) BRANCH II: HUMAN DEVELOPMENT **ECCE PRACTICUM** (PRACTICAL)

75 MARKS:

Objectives:

jectives.

To help students apply theoretical knowledge in practical situations.

1. To help students to plan implement

1. To enable students to plan, implement and evaluate developmentally-appropriate

2. To enable and recreational activities of the students are recreational activities. educational and recreational activities for children.

3. To facilitate the development of classroom management skills in students.

4. To facilitate the development of event management skills in students.

Course Contents:

1. Introduction Orienting students to various aspects of ECCE placement. Input sessions on lesson planning, conducting art and craft activities. Developing skills in creating and composing stories and songs. Developing skills in creative story-telling.

2. Observation of children Developing a checklist and using it to observe children in the preschool setting.

3. Individual lessons (On concepts, art and craft activities, games, stories, etc.) Planning and Implementing of developmentally appropriate lesson plans. Evaluating Lessons (Self and Peers). Learning Classroom Management.

4. Small group lessons Planning and Implementing of developmentally appropriate lesson plans. Evaluating Lessons. Learning Classroom Management.

Planning and organising a Special event for one or more of the following: children, teachers, 5. Event Management parents, and grandparents

M.Sc. I (HOME SCIENCE) BRANCH II: HUMAN DEVELOPMENT COUNSELLING PRACTICUM (PRACTICAL)

Marks: 25

Objectives:

1. To facilitate in students a clearer understanding of themselves.

To help students develop competencies in the micro skills of counselling and in using different

3. To provide an opportunity to students to apply these skills and approaches in an individual setting and/or group setting.

4. To help students develop skills in recording and reporting the counselling process.

Course Content:

1. Awareness of Self

- Understanding Self
- Identifying issues within self that could affect counselling
- Translating insights into real-life settings

2. Microskills in counselling (Part I)

Developing Basic Counselling Skills (Active Listening, Reflection, Clarifying, Questioning, Summarizing, Goal-Setting, Termination, Referral)

3. Microskills in counselling (Part II)

Developing Advanced Counselling Skills (Confrontation, Advanced Empathy, Interpretation)

4. Approaches to Counselling: Individual and group (Part I)

- Solution Focused Brief Counselling
- Behavioural Therapy
- Cognitive Behavioral Therapies (R.E.B.T. and Aaron Beck's Cognitive Therapy)

5. Approaches to Counselling: Individual and group (Part II)

- Transactional Analysis
- Client-Centered Therapy
- Gestalt Therapy

Students are expected to:

- a) Participate in self-awareness exercises prior to observing and conducting the counselling sessions.
- b) Observe at least two sessions of individual counselling and one of group counselling (Instructor demonstrates the same).
- c) Conduct two sessions of individual counseling/group counseling. (Instructor observes the same and gives relevant feedback.)
- d) Record and report each of the sessions observed and conducted.
- e) Continuously work on personal issues that could affect the effectiveness of their counselling.

M.Sc. I (HOME SCIENCE) BRANCH II: HUMAN DEVELOPMENT PSYCHOLOGICAL TESTING PRACTICUM (PRACTICAL)

25 Marks:

Objective.

Objective.

To enable students to acquire competencies in the administration, scoring, and interpretation of the administration of the students to acquire competencies in the administration, scoring, and interpretation of the students to acquire competencies in the administration, scoring, and interpretation of the students to acquire competencies in the administration, scoring, and interpretation of the students to acquire competencies in the administration, scoring, and interpretation of the students to acquire competencies in the administration of the students to acquire competencies in the administration of the students to acquire competencies in the administration of the students to acquire competencies in the administration of the students to acquire competencies in the administration of the students to acquire competencies in the administration of the students to acquire competencies in the administration of the students to acquire competencies in the students to acquire competencies and the students are acquired to acquire competencies and the students are acquired t selected psychological tests.

Course Content:

- 1. Assessment of Intelligence, Cognitive Skills, and Creativity
 - a) Wechsler's Intelligence Scale for School Children
 - b) Torrance/Passi's Test of Creativity
- 2. Developmental Assessment
 - a) Developmental Assessment Scale for Indian Infants
 - b) Bender-Gestalt Test
 - c) Vineland Social Maturity Scale
- 3. Assessment of personality
 - a) Edward's Personal Preference Schedule
 - b) Children's Apperception Test
 - c) Myers Briggs Type Indicator
- 4. Assessment of Aptitude and Interest
 - 1. Differential Aptitude Test Group Intelligence Test (e.g., NVTI, Otis, etc.) Interest Inventory(Kuder/Strong/Mascarenhas)
- 5. Assessment of Self-esteem, Self-perception Harter's Self Perception Scales

Students are expected to administer, score and interpret each of the tests on two participants/clients and maintain a file of the same.

M. Sc. I (HOME SCIENCE) BRANCH III: TEXTILE AND FASHION TECHNOLOGY

Subject	Theory/ Practical	Internal Marks	University Marks	Total Marks	Periods/ Week (of One hour each(Univer sity exam hours	Internal External
Global Marketing Merchandising & Entrepreneurship	1	25	75	100	4	3	Both
Fiber Science	Theory	25	75	100	4	3	Both
Physical and Chemical Textile Testing	Practical	10	40	50	T : 4	4	Both
Apparel Design and Production (Paper I)- Woven	Practical	10	40	50	3	4	Both
Pattern Making and Grading	Practical	10	40	50	3	4	Both
Fashion Illustration	Practical	10	40	50	3	4	Both
Research Methods and Statistics	Theory	25	75	100	4	3	Both
Practicum in Research Methods	Practical	50		50	3		Internal
TOTAL				550	as had		

N. B.:

- Students are expected to complete an internship in an industry set-up for 3 to 4 weeks during vacations
- Subject theoretical input to be supported with field visits

M. Sc. I (HOME SCIENCE) GLOBAL MARKETING, MERCHANDISING AND ENTREPRENEURSHIP (THEORY)

Marks: 100

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Objectives.

To equip students with the knowledge of the fashion world.

1. To provide knowledge of international trade.

2. To impart knowledge of marketing and merchandising.

4. To enhance entrepreneur skills.

Course Content:

NOL

Unit I

International Fashion and Textile Design

(5)

- a) Language of Fashion and definition namely Fashion Cycle, Forecast, Fashion Movement, and Fashion Shows.
- b) Creation & Development Line planning, design sketch, Inspiration (Mood boards Events, Issues, Life style, Personality), First samples, strike-offs.
- c) Design and other organizational issues- Factors affecting creativity and innovation, factors influencing success and failure in product development

a) Ecology and Ethics- 'Green' fashion and textiles design, human Unit II rights issues and off-shore production considerations for foreign contractor production.

b) Leading International Designers and their Labels

Fashion Retailing Unit III .

(8)

- a) Managing the fashion retail business- Managing fashion retail operations; retail accounting and control, retail organization and retail human resources management.
- b) Understanding fashion consumers and their buying behavior.
- c) Merchandise planning, buying and control. Fashion retail marketing mix strategies; retail image and branding.
- d) Fashion diffusion and adoption; relationship to consumers' fashion choice. Service quality: importance to fashion retailing;
- e) Recent trends and strategies of fashion retailers: franchising, etailing, globalization of retail business.

Information Technology for Merchandising of Textiles & Clothing Unit IV Industries

(8)

- a) E-commerce: B2B and B2C E-commerce
- b) Database -applications in textile and clothing industries.
- c) Application of Artificial Intelligence techniques and Simulations in textiles and clothing industries

Unit VI Fashion Global Marketing and Brand Management a) Introduction and Overview- Issues surrounding b) Study of Global Brands- Brand globalization and challenges of rapidly changing market factors for product success. c) Brand Positioning: Market and Consumer Analysis, Distribution,

c) Brand Positioning: Market and Consumer Analysis, Distribution, Strategy- The market launch and its promotion, merchandising for a profit viz. Sales, Turnover, N.P. Costing P/L, Accounts, Direct/Indirect Expenses, and Terms of sale.

Unit VII Fashion buying a) Interpreting customers demand b) Developing a fashion image. (8)

c) Buying in Domestic and Foreign market.

d) Visual Merchandising

UnitVIII

a) Supply Chain Management in Fashion and Textiles
b) Concepts and principles of supply chain management (SCM): Supply chain management decisions, Planning, implementing and controlling

(8)

c) Information and technology in supply chain management: SCM enabling technologies: EDI, EPOS, item coding, EFT, activity based costing, etc. The applications of the information and technology for the SCM in the fashion industry.

d) Marketing decisions: product management strategy, pricing strategy, and promotion strategy. Sourcing decisions: value analysis, options, priority and criteria. Logistics decisions: transportation strategy, warehousing strategy and inventory strategy.

e) Developing and maintaining supply chain relationships

f) A conceptual Model of Strategic Alliance/Strategic Network.

Market Research Unit IX

a) Market research, inclusive of consumer trends, market analysis, target (8) customer profiles, fashion trend research, fabric and trim research,

- b) International Business in Fashion Industry
- c) General environment and trade pattern
- d) The global environmental forces affecting the international textile and clothing bodies and policies; GATT--WTO.
- e) Trade protectionism: sentiments in world textile and clothing trade; voluntary export restraint and multi-fiber arrangement (MFA); MFA phasing out and related problems; tariff and non-tariff barriers; certificate of origin; anti-dumping issues; the textile quotas system.
- f) Globalization of fashion business
- g) Internationalization of clothing business; licensing, franchising and sub-contraction; outward processing arrangement (OPA); multinational corporations and foreign direct investment of textile and clothing joint ventures and wholly-owned setups; strategic alliances; evaluation of investing host countries; potential markets for fashion

Entrepreneurship - Skills, Advantages, Disadvantages. Unit X

References:

Boyd, H. W. (1995) Marketing management: Strategic approach with a global orientation. Chicago: Irwin / Richard Irwin.

Davar, R. S. (1982) Modern marketing management. Bombay: Progressive.

Diamond, E. (2006) Fashion retailing: A multi-channel approach, New Jersey: Pearson/Prentice Hall.

Donnellan, J. (1999) Merchandising buying and management, New York: Fairchild Publications. Ed. Hines, T. and Bruce, M. (2001) Fashion marketing. Oxford: Buttersworth Heinemann.

Jackson, T. & Shaw, D. (2001) Mastering fashion buying and merchandising management, New York: Palgrave.

Jarnow, J., Guereira, M. & Judelle, B. (1987). Inside the fashion business. (4th Ed.). New York: MacMillan.

Kale, N. G. (1995). International marketing. Mumbai: Vipul Prakashan.

Kale, N. G. (1998). Fundamentals of marketing and finance. Mumbai: Manisha Prakashan.

Kotler, P. (1998) Marketing management: analysis, planning, implementation and control. (9th Ed.). New Delhi: Prentice Hall.

Vaz, M. (1996) Export marketing. Mumbai: Manisha Prakashan.

(6)

M. Sc. I (HOME SCIENCE) BRANCH III: TEXTILE AND FASHION TECHNOLOGY FIBRE SCIENCE (THEORY)

Marks: 100

To study synthetic To introd the macro	the morphology, chemical constitution and manufacturing processes of made fibers. physical and chemical properties and end uses of cellulosic, protefibers. uce students to the different concepts essential in understanding the build smolecule. stand how various factors of polymerization affect the properties of fibers int them with recent developments in the field of fibers.	cinic and ling up of
	Classification of fibers and definition.	NOT
Unit I.		(3)
Unit II.	Relationship between chemical constitution of fibers and their properties.	(4)
Unit III.	Polymerization: a) Classification of polymers. b) Building up of macromolecules by polymerization. c) Addition and condensation polymerization. d) Graft and block polymerization.	(9)
Unit IV.	Determination of molecular weight: a) Molecular weight of polymers. b) Degree of polymerization. c) Number average and weight average molecular weight. d) Methods of determining molecular weight.	(8)
Unit V.	Cellulose fibers:	
	a) Chemistry of cellulose-chemical composition and constitution, reactivity of different hydroxyl groups, oxycellulose and hydrocellulose, estimation of the extent of degradation.	(4)
	b) Morphology, fine structure, properties, and varieties of cellulosic fibers. (Cotton, Jute and Flax including Indian varieties)	(6)

Unit VI.	Proteinic fibers:	(4)
Our	a) Chemistry of proteins- chemical composition and constitution of amino acids, functional groups, properties conferred by the nature of substituents.	(4)
	 Morphology and histology of wool and silk, types of bonds present in wool (including Indian varieties) and silk, properties. 	(6)
Unit VII.	Regenerated cellulosic fibers:	
	a) Raw materials, manufacturing process, physical and chemical properties of regenerated fibers. (viscose rayon, acetate rayon, cuprammonium rayon, modal, high tenacity viscose, lyocell and polynosic fibers)	(4)
	b) Chemically modified cellulose (primary and secondary acetate rayon).	(4)
Unit VIII.	 Manufacturing process, properties, uses and modification of various synthetic fibers (nylon 6, nylon 66, polyester, acrylic, modacrylic, elastomeric carbon, glass PVC, PVA etc.) 	(7)
	b) Blends currently used based on synthetic and natural fibers.	(3)
Unit IX	Ecological concerns in manufacturing and processing of natural & manmade fibers.	(4)
Unit X.	Recent developments in natural, regenerated and synthetic fibers.	(5)

References:

Carter, E. M. (1971). Essentials of fiber chemistry New York: Marcel Dekker.

Carter, E. M. (1971). Essentials of five chemical technology of textile fibres. New Delhi: The Canton Press.

Chapman, C. B. (1972) Fibres. London: Butterworths and company. Cook, J. G. (1984) Handbook of textile fiber .(5th Ed.) U.K: Duram Merrow.

Corbman, P. B. (1985) Textiles: Fiber to fabric. (6th Ed.) McGraw Hill Book.

Grayson, M. (1984). Encyclopedia of textile, fiber and nonmoving fabrics. New York: John

Wiley & Sons. Gulrajani, M. L. (1985) Man-made textiles in developing countries. India: The Textile

Hess, K. Paddock. Textile fibres and their use. (6th Ed). New Delhi: Oxford & IBH. Association.

Hollen, N. & Saddler, J. (1988) Textiles. (6th Ed.) .New York: Macmillan.

Howard, L. N. (1986). Textiles: fibres, dyers, finishes and processes. New Jersey: Noyes.

Hollen, N. & Saddler, J. (1988). Textiles (6th Ed.) New York: Macmillan.

Kornreich, E. (1966). Introduction to fibres and fabrics. London Heywood books.

Kothari, V. K. (2000). Textile fibres: Development and innovation. Vol. II. New Delhi: I.A.F.L. Publication.

Lewin, M., & Pearce, M. E. (1998). A handbook of fiber chemistry. New York: Marcel Dekker.

Marjory, L. J. (1976). Essentials of textiles. New York.

Marjory, L. J. (1977). Introductory textile science .(3rd Ed.), New York.

Mishra, S. P. (2000). A textbook of fiber science and technology. New Delhi: New Age.

Morton, W. E. & Hearle, W. S. (1975). Physical properties of textile fibres. London: The Textile Institute.

Murthy, H. V. (1987) Introduction to textile fibres. Bombay: The Textile Association of India.

Porczynski, C. Z. & Carroll. (1961). Manual of man-made fibres. Bombay: The new book.

Robinson, J. S. (1980). Manufacture of yarns and fabrics from synthetic fibres. New Jersey: Noves Data.

Sadov, F., Korchanging, M. & Matelsky A. (1973). Chemical technology of fibrous materials. Moscow: MIR Publications.

Shenai, V. A. (1977). Textile fibres. Vol. I Mumbai: Sevak.

Steven, B. W. (1975). Fiber science. New Jersey: Prentice Hall.

Tammanna, N. S. (1973). Handbook of silk technology. New Delhi: Wiley Eastern.

Tortora, G. P. (1992). Understanding textiles. (4th Ed.) New York: Macmillan.

Trotman, G. R. (1994). Dyeing and chemical technology of textile fiber. (6th Ed.) New Delhi: B.I Publications Pvt. Ltd.

Vaidya, A. A. (1988). Production of synthetic fibres. New Delhi: Prentice Hall.

Wynner, A. (1997) Textiles' The Motivate Series London: Macmillan Education Ltd.

M. Sc. I (HOME SCIENCE) BRANCH III: TEXTILE AND FASHION TECHNOLOGY PHYSICAL AND CHEMICAL TEXTILE TESTING (PRACTICAL)

Marks: 50

Objectives:

1. To impart knowledge of the physical and chemical properties of textiles.

1. To teach the techniques of testing properties of textile materials.

Course Content:

Physical Testing

a) Fiber testing: Fiber length.

b) Yarns and their characteristics: Yarn twist, yarn count.

c) Fabrics and their characteristics: fabric weight, fabric count, water permeability, durability (pilling and abrasion), thin layer, creese recovery chromatography, tear/tensile (CRT) strength, flammability (demonstration)

Pretreatment, dyes and dyeing. 2.

a) Dyes and their properties: Scouring and bleaching of gray fabric.

b) Dyeing of fabric with direct, reactive (hot and cold), azoic, vat, acid and basic dyes using padding mangle, jigger dyeing machine as per their application and suitability.

c) Testing of dyed samples/solution (colorimeter, spectrophotometer) and color fastness evaluation (bleaches, crocking, laundering, light, perspiration, heat/pressing).

d) Dye identification on cellulosic and proteinic fabric.

- Chemical testing: Qualitative and quantitative analysis of blends. 3.
- Titrations: single and double titration (acid-base), hardness of water percent 4. availability of chlorine in bleach solution, other oxidation based method.
- Journal with experiments and samples. 5.

References:

Angappan, P. & Gopalkrishnan R. (1993). Textile Testing. S.S.M. Institute of Technology. Booth (1974). Principles of Textile Testing: An Introduction to Physical Methods of Testing Textile fibers, yarn and Fabrics London: Newnes Butterworth.

Collier B.J. (1999) Textile Testing and Analysis. New Jersey: Prentice Hall.

Handbook of Textile Testing, Bureau of Indian Standards. (1990). Testing and Grading of

Textile Fibers. Part 1 New Delhi: Bureau of Indian Standards

Handbook of Textile Testing, Bureau of Indian Standards. (1991). Testing and Grading of

Textile Fibers. Part 111 New Delhi: Bureau of Indian Standards

Handbook of Textile Testing, Bureau of Indian Standards. (1989). Identification and Testing of dyestuff and Colour Fastness on Textile Materials. Part 1V New Delhi: Bureau of Indian Standards

Shenai, V.A. (1980). Evaluation of Textile Chemicals Bombay Sevak Publication.

M. Sc. I (HOME SCIENCE) BRANCH III: TEXTILE AND FASHION TECHNOLOGY APPAREL DESIGN AND PRODUCTION PAPER I (WOVENS) (PRACTICAL)

Marks: 50

Objectives:

- To familiarize students with special techniques of apparel making.
- 2. To acquaint students with the art of handling different materials and patterns.

Course Content:

- Identification, analysis and selection of different types of fabrics for 1. particular end-uses.
- Placement of drafts on fabric and its cutting 2.
- Construction of garments using plackets (Kurta, double shirt 3. placket/Continuous Kurta), collars (Reversible/Chinese (shawl and danton), vokes (T-/ U-/Straight) and gussets (simple/ sleeve/ strip), pockets (side seam pocket/velt pocket/ bound pocket/ front pant pocket) zips (with seam/ invisible zip/ zip with fly).
 - (a) Choli
 - (b) Kurta/Angarakha
 - (c) Salwar/Churidar
 - (d) Western outfit/Party-wear
 - (e) Leg-wear
 - (f) Bathrobe
- 4. Finishing and packaging
- 5. Journal and presentation

References:

Aldrich, W. (1994). CAD in clothing and textiles. (2nd Ed.). Oxford: Blackwell Science. Armstrong, H. (1986). Pattern making for fashion designing. New York: Harper Collins Armstrong, H. (1987). Pattern making for fashion design. New York: Harper & Row Bane, A. (1972). Flat pattern design. New York: McGraw Hill. Brackenburry, T. (1992). Knitted clothing technology. Oxford. Blackwell Science Bradley, G. (1954). Costume design. (3rd Ed.). Searton International Textbook Bray, N. (1978). Dress fitting. (2nd Ed.). London: Granada Bray, N. (1978). More dress pattern designing. (4th Ed.). London: Granada Bray, N. (1978). Dress pattern designing. (4th Ed.). London: Granada

Carr, H. and Latham, B. (1994). The Technology of clothing manufacture. (2nd Ed.). Oxford: Blackwell Science

Blackwell Science. Cooklin, G. (1991). Introduction to clothing manufacture. Oxford: Blackwell Science.

Cookiin, G. Bailey. A. & Draper. W. (1970). Steps in clothing skills. Peoria. Illinois: Chas A.

Giolle. D. A. & Berke. B. (1979). Figure types and size ranges. New York: Fairchild. Bennett

Goulbourn, M. (1971). Introducing pattern cutting, grading and modeling. London: B.T.

Graff. J. L. (1976). Concepts in clothing. New York: McGraw Hill.

Kaiser. S. B. (1985). The social psychology of clothing. New York: Macmillan

Kaiser. S. D. & Touchie S. P. (1986). Individuality in Clothing selection and personal appearance. (4th Ed). Macmillan.

appearance, Illinois: The Good Heart Will Cox Lidell, L. A. (1981). Clothes and your appearance, Illinois: The Good Heart Will Cox

Minott. J. (1978). Fitting commercial patterns. Minneapolis: Minnesota Burgess.

Muke, A. (1980) A French touch -1. Pittsburgh: Hermann Printing & Litho

Singer (1988) Sewing for children. (1st Ed) Minnesota: C.Y. de Cosse

Stanley. H. (1977). Modeling and flat cutting for fashion. London: Hutchison

M. Sc. I (HOME SCIENCE) BRANCH III: TEXTILE AND FASHION TECHNOLOGY PATTERN MAKING AND GRADING (PRACTICAL)

Marks: 50

bjectives:

1. To acquaint students to advanced techniques of designing and making patterns for different to acquaint students to advanced techniques of designing and making patterns for different to acquaint students to advanced techniques of designing and making patterns for different to acquaint students to advanced techniques of designing and making patterns for different to acquaint students to advanced techniques of designing and making patterns for different to acquaint students to advanced techniques of designing and making patterns for different to acquaint students to advanced techniques of designing and making patterns for different to acquaint students to advanced techniques of designing and making patterns for different to acquaint students to advanced techniques of designing and making patterns for different to acquaint students to acquaint stu Objectives:

styles of clothing for women. To acquain styles of clothing for women. styles of clothing for women.
 To adapt constructed blocks to the given patterns and grading according to different sizes.

Course Content:

- Anthropometric measurements & Grading

- Basic Clock Construction:
 - (a) Adult's Basic Block
 - (b) Adults Basic Sleeve
 - (c) Torso block
- Drafting and adapting patterns (along with draft instructions and markings) using displacements and concealments of darts. 2.
- Drafting of yokes, gathers and pleats for upper and lower garments Drafting of collars (Shirt, Reversible, Shawl, Danton, Chinese) 3.
- Drafting of sleeves (Dolman, Raglan, Kimono, Magyar) 4.
- Journal and Presentation 5.

Aldrich, W. (1996). Fabric Form and flat pattern cutting. Oxford: Blackwell Science. Aldrich, W. (1997). Metric pattern cutting men's wear. Oxford: Blackwell Science. Armstrong, H. J. (1986). Pattern making for fashion designing. New York: Harper and Row Braddock, S. F. (1998). Techno-textiles: revolutionary fabrics for fashion and design. London: Thames and Hudson

Bray, N. (1970). Dress fitting: The basic principles of cut and fit. (5th Ed.) London: Crosby Lockwood and sons

Bray, N. (1970). Dress pattern designing: the basic principles of cut and fit. (5th Ed.) London: Crosby Lockwood and sons

Bray, N. (1995). More dress pattern designing. (4th Ed.). Great Britain: Blackwell Science. Cooklin, G. (1995). More patterns and grading for women's outsize. Great Britain: Blackwell Science Cooklin, G. (1992). Pattern grading for men's clothes: the technology of sizing. Oxford: Blackwell Science Cooklin, G. (1992). Pattern grading for women's clothes: the technology of sizing. Oxford: S.P. Professional Books.

Dalley, T. (1988). The complete guide to illustration and design techniques and materials. New Jersey: Chartwell Books

44

Goulboum, M. (1971). Introducing pattern cutting: Grading and modeling. London: B. T. Batsford. Jan, M. (1967). Coordinated pattern fit. Burgess Publishing

Littman, C, (1977). Pattern making design: Skirts and pants. New York: Delmar Toledo, R. (1996). Style dictionary. New York Abbeville Press.

M. Sc. I (HOME SCIENCE) BRANCH III: TEXTILE AND FASHION TECHNOLOGY FASHION ILLUSTRATION (PRACTICAL)

Marks: 50

Objectives:

garments and accessories based on themes.

garments and garments and rendering colours for designing to enhance the creative skills of drawing, sketching and rendering colours for designing to ensure the creative skills of drawing, sketching and rendering colours for designing to ensure the creative skills of drawing, sketching and rendering colours for designing to ensure the creative skills of drawing, sketching and rendering colours for designing to ensure the creative skills of drawing, sketching and rendering colours for designing to ensure the creative skills of drawing. To enhance the cream.

accessories based on themes.

Course Content:

Drawings: 1.

a) Normal Figure, fashion figure

b) Face drawing, nose figure drawing (3), leg figure (3), hand figure (3), hairstyles (3) and accessories (footwear, bags, jewellery headgears).

c) Poses (10)

- Postures dressing up the croqui as per the following ensemble (minimum 3 per 2. line); casual wear, formal wear, fusion wear, winter wear, sports wear, night wear, maternity wear, beach wear, lingerie, party wear(Indian/Western), theme garment designing (using rendering techniques like stumato, graphito, resist layering etc. and media and material like lead pencil, color pencil and crayon, stippling, water and poster colors, mixed medium, use of prints, fabric rendering, etc.) The above ensembles to include designs in sleeves, collars, necklines, bodices, lingerie, bifurcated wear, outer wear, winter wear, jackets, dresses and gowns
- Flats working sketches with specification sheets. 3.
- Demonstrations in computer applications for fashion illustration. 4.
- Portfolio & Journal 5.

References:

Kybalova, L. (1968). Pictorial encyclopedia of fashion. London: Hamlyn. Mackrell, A. (1997). An illustrated history of fashion and 500 years of fashion illustration. (1st

McKelvey, K. (1996) Fashion source book. Oxford: Blackwell Science

McKelvey, K. (1996) Illustrating fashion. Oxford: Blackwell Science.

Ogawa, Y. (1990). Colour in fashion: a guide to coordinating fashion colours. Bombay: India Books Books.

Peacock, J. (1993). 20th century fashion: the source books - the 1930's. London: Thames and Holland Control of the source books - the 1930's. London: Thames and Holland of the source books. Peacock, J. (1993). 20th century fashion: the source books - the 1930's. London: Thames and Huden Peacock, J. (1997). 20th century fashion: the 20's. New York: Thames and Huden Peacock, J. (1997). Fashion source books – the 20's. New York: Thames and Hudson.
Peacock, J. (1997). Fashion source books – the 30's. New York: Thames and Hudson. Peacock, J. (1997). Fashion source books – the 30's. New York: Thames and Hudson, Peacock, J. (1997). Fashion source books – the 50's. New York: Thames and Hudson, Peacock, J. (1997). Fashion source books – the 50's. New York: Thames and Hudson. Peacock, J. (1997). Fashion source books – the 50's. New York: Thames and Hudson, Peacock, J. (1997). Fashion source books – the 70's. New York: Thames and Hudson, Peacock, J. (1997). Fashion source books – the 70's. New York: Thames and Hudson,

Peacock, J. (1997). Fashion source books – the 70's. New York: Thames and Hudson, Peacock, J. (1997). Fashion source books – the 70's. New York: Thames and Hudson, Peacock, J. (1997). Fashion accessories. U.S.A.: C.Y. de'Cosse.

Peacock, J. (1997). Tusting fashion accessories. U.S.A.: C.Y. de'Cosse. Singer (1993). Creating fashion accessories. U.S.A.: C.Y. de'Cosse. Singer (1995). Creating Justice machine stitching. U.S.A.: Cowles Creative Singer. (1990). Decorative machine stitching. U.S.A.: Cowles Creative

Singer. (1990). Decording ideas. U.S.A.: Cowles Creative Singer. (1992). More creative sewing ideas. U.S.A.: Singer. (1992). More creative sewing in Singer. (1992). The complete book of fashion illustration. New York: Harper & Row. Tate, S.L. (1987). The complete book of fashion illustration. New York: Harper & Row.

Toledo, R. (1996). Style dictionary. New York: Abbeville. Toledo, R. (1996). Style dictionary. New Tolling Toledo, R. (1996). Style dictionary. New Tolling Tumpenny, J.M. (1983). Fashion design and illustration II- knitwear and jersey. London: Compenny, J.M. (1983).

Hutchison Tumpenny, J.M. (1986). Fashion design and illustration I- basic guidelines. London: Company, J.M. (1986). Hutchison.

M.Sc. I (HOME SCIENCE) COMMON PAPER: ALL BRANCHES RESEARCH METHODS AND STATISTICS (THEORY)

Objectives:	
Latudanta daval	Marks:10
1. To help students develop the skills needed in conducting a recommon 2. To promote academic, research and professional ethics in structure 3. To introduce students to principles of good scientific writing 4. To enable in students the skills in selecting, computing, intercourse Content:	esearch in their specialisation. Idents.
Course Content:	preting and reporting statistic
RESEARCH METHODS	NOL
Unit I A. Introduction and Overview	
(a) What is a research? (b) Objectivity and subjectivity in scientific inquiry: Pre (b) Steps in the research process	(6)
 (b) Steps in the research process (c) Importance of research in general, and in each disciple (d) Illustration of research in each of the three specialisate Dietetics; Human Development; and, Textile and Fashion (e) Qualitative versus quantitative research 	ine
Unit I B. The beginning steps in the research process (a) Identifying broad areas of research in a discipline (b) Identifying interest areas; using multiple search strates (c) Prioritising topics; specifying a topic; feasibility (d) Review of literature/scholarly argument in support of (e) Specifying research objectives/hypotheses/questions	
(b) Identifying broad areas of research in a discipline (b) Identifying interest areas; using multiple search strate (c) Prioritising topics; specifying a topic; feasibility (d) Review of literature/scholarly argument in	gies
(a) Identifying bload areas of research in a discipline (b) Identifying interest areas; using multiple search strate; (c) Prioritising topics; specifying a topic; feasibility (d) Review of literature/scholarly argument in support of (e) Specifying research objectives/hypotheses/questions Unit II A. Variables (a) Definition (b) Characteristics (c) Types	gies

Unit III A. Research designs in quantitative research Unit III A. Research designs in quantitative research designs; and, selecting research designs that are Distinguishing between the following research designs; and, selecting research designs that are congruent with one's research purpose. (a) Longitudinal versus cross-sectional (a) Longitudinal versus quasi-experimental versus correlational (b) Experimental versus quasi-experimental versus correlational (c) Exploratory versus descriptive versus explanatory Unit III B. Sampling techniques in quantitative research (a) Probability and nonprobability sampling methods (a) Propaging and homproduction (b) Sampling methods in current use/examples from current research (d) Issues with regard to sampling techniques Unit IV A. Data entry in quantitative research (a) Codebook and mastersheet (b) Creating data files and data management: Rows=cases, columns=variables, matrix of cells Naming variables Numerical versus string format of variable values in data file Specifying variable information (Variable labels, value labels, and missing values)
Resequencing variables or cases; recoding variables; constructing new variables Unit IV B. Qualitative research methods (6) (a) Ideology/worldview of the qualitative researcher (b) Research designs in qualitative research (c) Sampling techniques in qualitative research (d) Data collection methods in qualitative research (e) Data analytic strategies in qualitative research (f) Reporting of results in qualitative research Unit V A. Scientific writing (4) (a) Distinguishing scientific writing from popular and literary writing styles (b) Characteristics/principles of scientific writing (avoiding plagiarism; use of citations, quotations, a reference list or a bibliography; writing from an outline, sectioning the document/using headings and subheading; avoiding redundancy; avoiding ambiguity; avoiding jargon) (c) Examples of good scientific writing (d) Writing a research proposal (e) Reporting statistical findings in text Unit V B. Ethics (a) In academia (b) In research in general (c) In research with human subjects (d) In research with animal subjects

STATISTICS 3 VI A. Introduction and overview		
STATISTICS Unit VI A. Introduction and overview (a) Role of statistics in (quantitative)		
Unit (a) Role of statistics in (quantitative) research		
		(4)
(c) Prerequisite concepts in mathematical		
(c) Prerequisite concepts in mathematics (e.g., properties of the summalgebra)		
aigeord)	ation sign, b	asic
n Descriptive Statistics 6		
Unit VI B. Descriptive Statistics for summarizing nominal level variables (a) Frequency (also known as a count)		
(a) Frequency (also known as a count)		(2)
(b) Raw frequencies vs. relative frequencies		
(b) Percentages (how, when, and why)		
(c) Barcharts and piecharts		
Unit VII A. Descriptive Statistics for summarizing ratio level variables		
(a) Frequencies and percentages		(10)
(b) Computing an average/measure of a central tendency		,
Mean Mean		
Median		
1.12.11.11.1		
Mode(s)		
Contrasting the mean vs. median		
Computing an average when there are outliers or extreme value	s in the data	set
resolution of the center (3% trimmed mean: M estimator	s)	
Quartiles and percentiles		
(d) Computing a measure of variability or dispersion		
Why? (inadequacy of the mean)		
Minimum value and maximum value		
Range		
Interquartile range		
Variance and standard deviation		
(e) Discrete and continuous variables		
(f) Histograms and line graphs		
Unit VII B. Descriptive Statistics for summarizing interval level variables	. (1)
(a) Frequencies and percentages	•	•
(b) Mean, median, standard deviation with some decoding		
(c) Actual range vs. theoretical range		
Unit VII C. Descriptive Statistics for summarizing ordinal level variables	(1)
(a) Francisco de la latina francisco per ascending category	, ,	,
(a) Frequency and relative frequency per ascending category		
(b) Mean and median with decoding		
(c) Barcharts with bars with ascending categories on the x axis		

Unit VIII A. Probability: Foundation of Ac	lvanced/Inferential Statistics
Unit VIII A. Probability.	all with the control of the state of the sta
	statistics (6)
(b) Role of probability in research and (c) Elementary concepts in probability	the tank and allowed the second
() Elementally contains and ever	of/ourcome/element of the
Sample space, experiment, ever Equally likely outcomes and the	e uniform probability model
Equally likely outcomes and the Stabilization of the relative frequency	uency
orless concepts needed for	ise of advanced/inferential statics
Unit VIII B. Other concepts needed for the i	to lics
(a) Types of distribution	(5)
Normal distribution	
Probability distribution	
Sampling distribution	
(b) Type I and type II errors	
a limit theorem	
a to the stimulation we interval collination	on
(d) Point estimation vs. interval (e) Standard error (and confidence interv	vals)
(e) Standard error (and confidence to the confid	ds
(f) Parametric and nonparametric memory	
Unit IX A. Using an advanced statistical met	hod (the following is done
	id then re-applied henceforth)
(a) Writing the research aim/identifying	the research aim (research objective or research
question or research hypothesis)	(1000alloll objective or research
(b) Identifying the level of measurement	of each of the variables involved
(c) Selecting and justifying the use of a to	est procedure
(d) Seeing/clarifying whether test assump	ations are met
(e) Computing the observed value	otions are met
(6) Contracting the observed value with the	ne critical value and declaring test results
Level of significance (p values)	te effical value and declaring test results
Meaning	
0	lines)
Cut-offs (in various discip	
Interpreting and reporting	
Nonsignificant vs. insignif	icant
(g) Describing the results (ensuring that re	elevant descriptive statistics are also reported;
manner of reporting advanced statistic	es)
(n) Discussing the results (explanation of	findings; corroboration with past theory and
research; implications for research, the	eory and/or practice)
Unit IX B. To study statistics that allows us to	contrast phenomena (8)
(a) Univariate chi-square test	contrast phenomena (9)
(b) Bivariate chi-square test	
(c) t- or z- test for contract	
(c) t- or z- test for contrasting two indepen (d) Paired t-test	dent groups
(e) ANOVA	
(3) THIO YA	

To study statistics that allows us to examine relationships between variables (2)

| A C. To study statistics that allows us to examine relationships between variables (2)

| A Bivariate chi-square test (2)
| Bivariate chi-square test (2)
| Product-moment correlation coefficient (2)

(2)

perionstration of computer software such as the Statistical Package for the Social Sciences (SPSS)

(5)

(a) Data entry
(b) Data Management
(c) Descriptive Statistics

peterences: G.K., & Johnson, R. A. (1977). Statistical concepts and methods. NY: John pattacharyya, G.K., & Johnson, R. A. (1977). Statistical concepts and methods. NY: John wiley. R. S. (1997). Research methods in behavioral sciences. Delhi: Macmillan India. Drivedi, R. S. (1997). & Waillnau, L. B. (2000). Statistics for the behavioral sciences. Belmont, CA: Cavetter, F. J., & Waillnau, L. B. (2000).

Wadsworth/Thomson Learning.

Wellinger, F. N., & Lee, H. B. (2000). Foundations of behavioral research. Orlando, Florida:

Harrourt. Leng, F.T.L., & Austin, J. T. (Eds.) (1996). The psychology research handbook. New Delhi:

M.Sc. I (HOME SCIENCE) COMMON PAPER: ALL BRANCHES PRACTICUM IN RESEARCH METHODS (PRACTICAL)

 M_{ark_3}

Objectives:
To provide students with opportunities for hands-on exercises with regard to many steps of the To provide students with opportunity of the presence of the provide students with opportunity of the presence of the presence

Course Content:

- 1. Preliminary steps in the research process: using multiple search strategies
 - a) identifying broad areas of research in one's specialization (identifying leading scholars the tables of contents, articles in which areas are solicited in journals, reading the tables of contents, articles in which areas are solicited in each such as a solicited in eac journals, reading the tables of content, journals, reading the tables of content, journal, scanning dissertation topics, identifying focus areas with regard to dissertation topics over the vears academicians/researchers/ practitioners, Net search)
 - b) identifying priority areas of research in one's specialization
 - c) identifying areas of personal interest (selecting any one dissertation, summarizing his dissertation, justifying the selection of this dissertation; selecting any one research article from a reputed scholarly journal, summarizing this research, justifying the selection of this research article; interviewing one local expert; communicating with one national or international expert in one's area of interest using e-mail)
 - d) visits to research centers in Mumbai (relevant to one's specialisation)
- 2. Preliminary steps in the research process: the review of literature and statement of purpose
 - a) studying the review of literature in various dissertations and research articles and identifying key features of the content of literature reviews
 - b) studying the manner in which the purpose in stated in dissertations and research
 - c) developing skills in paraphrasing (i.e., rewriting ideas in own words) and avoiding plagiarism (due acknowledgement to original source)
 - d) developing skills in formulating research objectives, questions and hypotheses
 - e) developing skills in writing and orally communicating a literature review and statement of research purpose
- 3. Middle steps in the research process: the methods, examining and evaluating the methods used to accomplish a stated process: the methods, examining and evaluating the methods. used to accomplish a stated research aim using examples from various dissertations and research articles both in writing and orally, in particular, the:
 - a) research designs (e.g., qualitative, quantitative)

 - b) sampling techniques, sample sizes, and sample characteristics
 - d) plan of analysis

latter steps in the research process: results, discussion, and references examining key features of the results section of discussion examining key features of the results section of discussion. ter steps in the steps in the results section of dissertations and research articles as analyzed data to write the results (making tables

examilians and research articles

a) examilians analyzed data to write the results (making tables, making figures, scientific b) using analyzed in communicating statistical findings in text, qualitative research using analyzed and communicating statistical findings in text, qualitative research and thick protocol in communicating statistical findings in text, qualitative research and thick

descriptions key features of the discussion section of dissertations and research articles examining key features of the discussion section of dissertations and research articles (corroboration, explanation, implications, and recommendations) examining (corroboration, explanation, implications, and recommendations)

(various findings sections and writing the discussion of the findings

Reviewing, summarizing, and evaluating the complete research article in writing research journal) and orally (developing professional at m. Reviewing, samuely and orally (developing professional skills in presentation of maintaining a research polynomial) and orally (developing professional skills in presentation of Developing holistic skills in: (maintain.) Developing holistic skills in:

- a) identifying exemplary research literature
- b) summarizing exemplary research dissertations or research articles
- c) evaluating exemplary research dissertations or research articles
- d) presenting a research

Students can conduct pilot research studies or organize a research conference as part of this course as well.

University of Mumbai



Revised Syllabus for the

M.Sc. (Part II)

Degree Course

In

Home Science

(With effect from the academic year 2009 - 2010)

M.Sc (II) (HOME SCIENCE) (Revised Syllabus w.e.f. Academic Year 2010-11)

BRANCH I : FOODS, NUTRITION & DIETETICS

Course Outline

Subject	Theory/ Practical	Internal Marks	University Exam Marks	Total Marks	Periods Per week (of one hour each)	University Exam hours	Internal/ External
Advances in Human Nutrition	Theory	15	60	75	3	2 1/2	Both
Clinical Nutrition& Therapeutic Dietetics- Paper II	Theory	15	60	75	3	2 1/2	Both
Public Health Nutrition	Theory	10	40	50	2	2	Both
Management - Manpower & Marketing	Theory	10	40	50	2	2	Both
Therapeutic Dietetics	Practical	10	40	50	3	3	Both
Dissertation	Practical	75	75	150	10		Both
Total				450			

M.Sc II (HOME SCIENCE) BRANCH I: FOODS, NUTRITION & DIETETICS ADVANCES IN HUMAN NUTRITION. (THEORY)

Object	rives: To understand the influence of nutrition on human growth and developments and adaptations by the human growth and developments are supplied to the human growth and develop	Marks: 75
2. 1	o understand the influence of nutrition on numan growth and developm to study about the nutritional requirements and adaptations by the human of get an insight in to the role of Nutrition for fitness and sports. To update knowledge in the area of human Nutrition.	ent. n body,
Course	Content:	
dick	그는 작가 있는 것이 없는 그는 사람들이 가는 사람들이 되었다. 그는 사람들이 되었다면 하는 것이 없는데 되었다. 그는 사람들이 되었다면 하는데 되었다면 되었다면 되었다면 되었다면 되었다면 되었다면 되었다면 되었다면	NOL
Unit I	A) Contemporary issues in macronutrient metabolism and regulatory nutrients i.e.water and fat soluble vitamins and minerals. B) Nutritional requirements – Proteins, energy (energy metabolism) vitamins and minerals.	(7)
	vitamins and minerals - determination of nutrient needs	(8)
	- RDA for Indians	
	C) Nutritional requirements for special conditions	
	- Extreme climatic conditions	(5)
	 Space Nutrition Calamities, disorders and emergencies 	
Unit II	A) Nutritional adaptations -	
	- underlying mechanism	(8)
	- Biochemical basis for adaptation	Y page 14
	- Long and Short term adaptation - Adaptation in chronic severe and	
	 Adaptation in chronic, severe under nutrition and over nutrition. Metabolic consequences of starvation. 	
	B) Growth and development	
	- General aspects of Human Grand	(7)
	- Cellular and physical growth.	
Unit III		
	- Nervous system and Nerve Cell	(10)
	wittellt Diccitrone of	(10)
	Nutrition and behaviour	
	- Effect of under nutrition on neuronal development.	
Jnit IV	Nutrition	
	Nutrition and Physical fitness.	1.24
	VUIIIIODANIa - C	(1.1)
	- Biochemical and Carbohydrates Protein and Living	
	 Interrelationship of Carbohydrates, Protein and lipid metabolism Biochemical assessment of physical exertion Effect of nutritional status on physical performance. 	
	Portormance.	

Ergogenic aids.

Eating disorders among athletes

Role of water, electrolytes, vitamins & minerals in physical fitness

Unit V

Complementary Nutrition & Other components with health relevance.

Bioactive Dietary Components

- Nutraceuticals and Functional foods
- Phytochemicals
- Carotenoids
- Plant sterols
- Polyphenolics
- Phytoestrogens
- Polyols
- Prebiotics and probiotics
- Dietary Supplements
- Vitamins and minerals
- Natural Health products
- Moderate and megadosing

Benordot, D (1999) Nutrition for serious athletes and advanced guide to foods, fluids and

supplements for training and performance champaign IL. Human Kinetic.

Grodd, J.L. and Gropper, S.S. (1999) Adfvanced Nutrition and human metabolism. Belmount

Judith E. Broch (1998) Nutrition Now, West/wadsworth International Thomson Pub. Co.

Williams, Cand devlin, T.J. (1992) Foods Nutrition and Sports performance E and N Sposs I

Goodhart R.S.S and Shils, M.E 91998) Modern nutrition in health and disease. Philadelphia Lea

Stipanuk Martha H. 2006 Biochemical, physiological, molecular Aspects of human Nutrition -

Paul I, Turner ER, ross Don – 2006 (2nd ed.) Discovering Nutrition – Jones and Bartlett

Geissler C. Powers H (11th ed.) 2005 human Nutrition ELSEVIER Churchill Livinstone ISBN Zegler, E.E and Filer, L.J. (1996) Present knowledge in nutrition. Washington D.C. International

Life Sciences Institute

(18)

M.Sc II (HOME SCIENCE) BRANCH I : FOODS, NUTRITION & DIETETICS BRANCH I: FOODS, HE APEUTIC DIETETICS - PAPER II (THEORY)

Marks: 75

Objectives:

1. To provide students with an overview of the physiology and functions of different organ system.

2. To expose students to the nutritional care process, the role of a nutritionist and the method.

employed in nutrition provision and interventions.

To impart an indepth knowledge regarding prevalence, etiology, diagnosis, pathophysiology.

To impart an indepth knowledge regarding prevalence, etiology, diagnosis, pathophysiology. To impart an indepth knowledge regarding productions and medical, nutritional and lifestyle drug nutrient interactions, gene – nutrient interactions and medical, nutritional and lifestyle management in different disease conditions.

4. To enable students to focus on: advancements in clinical nutrition, emerging modes of therapy and intervention and ongoing research in the field.

5. To emphasise the role of nutrition in the prevention of chronic disease.

All diseases (acute and chronic) will be discussed with reference to the following topics:-

Physiology and functions of the organ system.

Etiology, risk factors, Diagnosis, classification, Pathophysiology.

Management - Medical

- Nutritional Lifestyle and exercise
- o Surgical (wherever applicable)
- Drug nutrient interactions
- Gene nutrient interactions
- Advances and trends in research in the disease conditions.
- Available supplements and neutraceuticals a study of dosage and efficacy.

Course Content:

NOL

Unit I. Nutrition and the Gastrointestinal System and accessory organs:-

- Dental health and Nutrition
- Esophagitis and GERD
- Gastritis
- Gastroparesis
- Peptic ulcers
- An overview of diarrhoea, steatrorrhoea, constipation and flatulance.
- Gluten induced enteropathy
- Lactose intolerance
- Inflammatory bowel Disease
- Short bowel syndrome
- Irritable bowel syndrome
- Diverticulitis and hemeroids
- Liver:- Affect of alcohol on the liver and nutritional status.
- Hepatitis
- Cirrhosis (Alcoholic and Non-alcoholic)

Hepatic Encephalopathy. Liver transplant (a) Wilson's disease Gall Bladder:-Gall Bladder.

Gall Bladder, management of diseases of gall bladder.

Physiology and function of the gall bladder, management of diseases of gall bladder. pancreas: Physiology & functions of the pancreas Acute and chronic pancreatitis Pancreatic cancer. Nutrition and Renal Disorders:-Glomerular Nephritis (Acute & Chronic) (12) Nephrotic Syndrome Acute Renal failure Chronic renal failure with special emphasis on dialysis - process and nutritional management. Renal transplant Renal Calculi Unit III. Nutrition and Cancer (11)• Etiology and molecular basis of neoplasia Assessment of nutritional status Medical, surgical and nutritional management. Nutritional support Nutrition and prevention of cancer. Unit IV. Nutrition and Bone health: (7) Nutrients involved in bone health Osteoporosis and Osteomalacia Osteoarthritis Gout Rheumatoid Arthritis (6)Unit V. Nutrition and haematalogical disorders a) Principles of Nutrition in the following diseases (7)b) Nutrition in Inborn Errors of Metabolism Principles of genetic disease management. amino acid metabolism (Phenyl ketoneuria, Tyrosinemia, Branched chain amino • Diseases of: acids, sulphur containing amino acids) Urea cycle enzyme deficiencies Galactose enzyme deficiencies Defects of oxidation Nutrition and retinyl degradation.

- c) Nutrition and the Nervous system & Psychiatric disorders:
 - rition and the Nervous system & 155 Neurological disorders associated with Vitamin deficiencies and excesses.
 Neurological disorders associated with Vitamin deficiencies and excesses. Role of Nutrition in prevention and management of:

 - Alzeimer's disease
 - Parkinson's Disease
 - Cerebral Palsy
 - Senility
 - Schizophrenia and psychosis

Gibney J.M., (2005). Clinical Nutrition Blackwell Publishing House. King K. (2003). Nutrition Therapy 2nd ed. Helm Publishing, Texas Bendich.A (1997). Preventive Nutrition Humana Press Burke .L (2006). Clinical Sports Nutrition 3rd ed. Mc Graw Hill Co Burke .L (2006). Clinical Sports Rudding Nutrition, 2nd ed. Lippincot Williams and Wilkins Mc Ardle. W (2005). Sports and Exercise Nutrition, 2nd ed. Saundar B. in Wilkins Mc Ardle. W (2003). Sports and Exercises and Diet Therapy. 9th ed. Saunders Pub Co. Blackwell Scientific Publication (1994). Manual Of Dietetic Practice.2nd ed. Brown J. (2002). Nutrition Through The Lifecycle. Wadsworth Pub Co. Jamison J. (2003). Clinical Guide To Nutrition and Dietary Supplements in Disease Management Churchill -Livingstone Pub. Jeejeebhoy et al (1988) Nutrition and Metabolism in Patient Care W.B.Saunders CO. Lee. R.D. (2003) Nutritional Assessment 3rd ed. M c Graw Hill Pub.

McCormic .d.(1999) Annual Review of Nutrition vol 19 &20. Annual Reviews, California Mahan .K.L.(2008) Krause's Food and Nutrition Therapy Saunders Pub.

Garrow J.S (1993) Human Nutrition and Dietetics 9th ed. Churchill Livingstone Pub. Shills. M. (2006) Modern Nutrition in Health and Disease. 10th ed. Lippincot William and Wilkins ICMR Pub. (2000) Nutrient Requirement and Recommended Dietary Allowances for Indians Gopalan .C.(2000) Nutritive Value of Indian Foods. NIN ICMR Pub.

Whitney .C. (2006) Understanding Normal and Clinical Nutrition. Wadsworth publication Sauberlich .H (1999) Laboratory Tests for the Assessment of Nutritional Status 2nd ed. CRC Press

Journals:

Nutrition Reviews American Journal of Clinical Nutrition Journal of American Dietetic Association. Journal of Nutrition

M.Sc II (HOME SCIENCE) BRANCH I: FOODS, NUTRITION & DIETETICS PUBLIC HEALTH NUTRITION (THEORY)

Marks: 50

5 4 3 3 4 5 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Objectives: To enable students to To enable students about current and emerging issues in Public Health Nutrition. 1. increase awareness about current and emerging issues in Public Health Nutrition. Apply their knowledge to solve nutrition – related health problems. Appreciate and critically evaluate the impact of research on the practice of public hourition.	ealth
Course Content:	NOL
Unit I. (A) An overview of Public health Nutrition Definitions The Public health nutrition cycle	(2)
 (B) Nutrition Epidemiology Types of studies Study design Measuring exposure Measuring outcomes and associations Interpretation of associations 	(4)
Unit II. Assessment of the Nutrition Status of Individuals and Populations. - Dietary assessment - Use of biomarkers for assessing the nutritional status - Anthropometric and other clinical measures. - Errors in assessment of nutritional status.	(4)
 Unit III. (A)Public health Nutrition Strategies for Intervention at the Ecological level. Definition of the Ecological Approach Key Principles Intervention Guidelines for using the ecological approach to design nutrition interven Ecological interventions to change eating habits. 	
quirements and consmended distancy. Allowances for leatings (1777) is	
(B)Public Health Nutrition Strategies for Intervention at the Individual Level.	(8)

Theoretical models for behaviour change Key steps involved in planning, implementing and evaluating an intervention. Unit IV (A)Dietary Guidelines

- Dietary goals versus dietary guidelines
- Quantitative and Quanlitative dietary guidelines. Steps involved in devising dietary guidelines.

(B)Food Choice

- Population issues affecting food choice
- Individual issues affecting food choice.

Unit V. (A) Public health Issues

- (a) study of the following with greater emphasis to the current Indian context. (12)
- (b) Nutrition and Reproductive health
- (c) Maternal nutrition and foetal outcome
- (d) Underweight and obesity
- (e) PEM
- (f) Vitamin A deficiency and child health, survival and vision
- (g) Iodine deficiency
- (h) Iron deficiency and anemia
- (i) Zinc Deficiency
- (j) HIV and micronutrient nutrition
- (k) Diarrhea
- (1) Cancers
- (m) Diabetes
- (n) Heart disease

(B) National Goals and Policies

Nutrition Related health Goals

Immunisation schedules

National Nutrition Policy - a summary of important aspects.

An overview of plans and services (local, state, national and international) Initiatives for prevention of disease eg. Water and air-borne diseases, osteoporosis and hip fracture.

References:

Gibney, M.J. Margetts, B.M., Kearney, J.M. and Arab, L. (eds) (2004). Public health Nutrition. The Nutrition Society Blackwell Science. Oxford.

Jelliffe, D.B. (1966). The Assessment of the Nutritional Status of the community WHO Geneva. Lee, R.D. and Nieman, D.C. (2003). Nutritional Assessment 3rd ed.

McGraw - Hill Higher education. New York.

Nutrient Requirements and recommended dietary Allowances for Indians. (1990) ICMR, New Delhi.

Sachdev, H.P.S. and Choudhary, P (eds). (1994). Nutrition in Children-Developing country Concerns, B.I. Publications Pvt. Ltd. New Delhi.

Sainani, G.S. (ed-in-chief) (1992), A.P.I. textbook of Medicine 5th ed. Association of Physicians of India Mumbai of India Mumbai.

6

(8)

(2)

M.Sc. II (HOME SCIENCE) BRANCH I: FOODS, NUTRITION & DIETETICS MANAGEMENT – MANPOWER AND MARKETING (THEORY)

Marks: 50

Objectives 1. To help 2. To make	enhance personal & professional performance e facilitate better administration & management skills	
Course Or	tline:	NOL
Unit I	Developing and Managing Human Resources An overview of: Job Analysis Job Design Job Evaluation Manpower Planning Recruitment and Selection Orientation and Induction Performance Appraisal Leadership and Motivation Self Awareness Training and Development Compensation and Reward Group Dynamics: Grievance Management, Conflict Resoluted Human Resource Audit	(10)
Unit II	Marketing and Marketing Management Process A brief exposure to: Meaning and Importance of Marketing Marketing Mix – elements, factors influencing marketing re Market Research Consumer Behaviour Market Segmentation Supply Chain Management	
Unit III	 a. Financial issues: An overview of: Budgeting Concepts of Cost: Fixed & variable cost, marginal cost, opportunity cost, break even analysis Sources of finance Auditing Evaluation parameters 	(8)

- b. Quality Management Approaches to quality improvement (8) Tools used in the process Issues for quality improvement Standards of quality in food industry Entrepreneurship in food service (6) Unit IV. Starting a business Legal requirements Skills & Knowledge needed Planning strategies for marketing products a. Managing Information: (6)Unit V. • The need for Information. String and retrieving Information
- String and retrieving Information
 Information in Interviews and Meetings
 Making presentations
 Writing reports
 - b. Ethics and Social responsibility:
 Meaning
 Responsibilities of internal & external beneficiaries

References:

Agarwala, T. (2007). Strategic Human Resource Management Oxford University Press - New Delhi.

Aswathappa, K. (2005). Human Resource and Personnel Management – Text and Cases Tata. McGraw – Hill Publishing Co. Ltd. New Delhi.

Boyd, H.W. Walker, O.C. and Larreche, J. (1995). Marketing Management – A Strategic Approach with a global Orientation 2nd ed. Irwin Chicago.

Cartwright, R. Collins, M, green, G and candy, A (2001). The Handbook for Managing resources and Information Infinity books, New Delhi.

Ivancevich, J.M. Donnelly, J.H and Gibson, J.L. (1996). Management – Principles and functions 4th ed. All India Traveller Bookseller. Delhi.

Kale, N.G. () Principles and practice of Marketing. Vipul prakashan – Mumbai.

Kotler, P. (2003). Marketing Management 11th ed. Pearson Education (Singapore) Ptc. Ltd. Delhi.

Rao, V.S.P. (2005) Human Resource management – text and cases 2nd ed. Excel Books. New Delhi.

Shookla, M.S. (2004). A Handbook of Human relations (with structured experiences and Instruments). Macmillan India Ltd. Delhi.

Singh, P.N. (1998). Developing and Managing Human resources 3rd ed. Suchandra Publications. Mumbai.

M.Sc. II (HOME SCIENCE) BRANCH I: FOODS, NUTRITION & DIETETICS THERAPEUTIC DIETETICS (PRACTICALS)

Marks: 50

Objectives:

To provide a detailed practical aspect to the clinical conditions studied in theory proble students to: To enable students to:

1. Analyse the given case

2. Obtain a nutritional diagnosis

2. Propose a nutrition plan for the patient

4. Prepare the selected meal

5. Evaluate the suggested diet plans

Course Content:

- 1. Planning a normal diet for different age groups and lifecycle conditions and modifications of the normal diet for texture.
- 2. Weight Management and Eating disorders

• Obesity

Overweight

Juvenile obesity

Anorexia Nervosa

Bulimia

Binge cating disorders

- PEM
- 3. Diabetes Mellitus
 - Type I for different age groups
 - TypeII with complications of obesity, hypertension, hyperlipidemias
 - Gestational DM
- 4. Cardio vascular diseases.
 - Hypertension, hyperlipidemias with associated complications
 - Metabolic syndrome
 - Myocardial infarction
 - Congestive cardiac failure
 - Cardiac bypass surgery
 - Diet and lifestyle management for prevention of cardiovascular incidents.
- 5. Enteral Nutrition Strategies: Naso gastric,nasoduodenal,naso jejunal, gastrostomy, jejunostomy, and illeostomy feeds.
- 6. Dietary strategies in infections
 - HIV
 - Tuberculosis

- Malaria, Dengue
- Food borne infections

7. Pulmonary diseases

- Asthma
- COPD
- Chronic Bronchitis
- Cystic Fibrosis

8. Gastro intestinal diseases

- Esophagitis and GERD
- Gastritis
- Peptic ulcers
- Gluten induced enteropathy
- Lactose intolerance
- Inflammatory bowel Disease
- Irritable bowel syndrome
- Diverticulitis
- A discussion on elimination diets

9. Diseases of the liver, gall bladder and pancreas

- Hepatitis
- Cirrhosis (Alcoholic and Non-alcoholic)
- · Hepatic Encephalopathy.
- Wilsons disease
- Cholecystitis-acute and chronic
- Cholelithiasis
- Acute and chronic pancreatitis

10. Renal diseases

- Glomerular Nephritis (Acute & Chronic)
- Nephrotic Syndrome
- Acute Renal failure
- Chronic renal failure on conservative management, haemo and peritoneal dialysis.
- Renal transplant
- Renal Calculi

11. Diet in cancer

Oral cancer Gastric cancer Esophageal cancer

Colon cancer Hepatic carcinoma Pancreatic cancer

A detailed discussion on side effects of chemo and radiation therpy

Diet in hypercatabolic state

Burns Trauma

Sepsis(SIRS, MODS)

Surgical conditions

Surgical conditions will be discussed considering the possible complications of

13.. Diet in bone and haematological disorders

References:

Gibney J.M., (2005). Clinical Nutrition Blackwell Publishing House.

King K. (2003). Nutrition Therapy 2nd ed. Helm Publishing, Texas

Bendich.A (1997). Preventive Nutrition Humana Press

Peckenpaugh .N (2003). Nutrition Essentials and Diet Therapy. 9th ed. Saunders Pub Co.

Blackwell Scientific Publication (1994). Manual Of Dietetic Practice.2nd ed.

Brown J. (2002). Nutrition Through The Lifecycle. Wadsworth Pub Co.

Jamison J. (2003). Clinical Guide To Nutrition and Dietary Supplements in Disease Management Churchill -Livingstone Pub.

Jeejeebhoy et al (1988). Nutrition and Metabolism in Patient Care W.B.Saunders CO.

Lee. R.D. (2003). Nutritional Assessment 3rd ed. M c Graw Hill Pub.

Mahan .K.L.(2008). Krause's Food and Nutrition Therapy Saunders Pub.

Garrow J.S (1993). Human Nutrition and Dietetics 9th ed.Churchill Livingstone Pub.

Shills. M. (2006). Modern Nutrition in Health and Disease. 10th ed. Lippincot William and Wilkins

ICMR Pub. (2000). Nutrient Requirement and Recommended Dietary Allowances for Indians

Gopalan C. (2000). Nutritive Value of Indian Foods. NIN ICMR Pub.

Whitney .C. (2006) Understanding Normal and Clinical Nutrition. Wadsworth publication

Sauberlich .H (1999) Laboratory Tests for the Assessment of Nutritional Status 2nd ed. CRC Press

M. Sc. II (HOME SCIENCE) BRANCH II: HUMAN DEVELOPMENT

Subject	Theory/ Practical	Internal Marks	Univer- sity Marks	Total Marks	Periods /Week (of One hour each)	Univer -sity Exam Hours	Internal/ External
Advances in Research in Human Development	Theory	25	75	100	4	3	Both
Human Exceptionality and Psychological Disorders	Theory	25	75	100	4	3	Both
Advanced Family Studies	Theory	10	40	50	2	1.5	Both
Supervision and Administration in Human Development Agencies	Practical	50		50	3	',	Internal
Dissertation	Practical	75	75	150	10		Both
TOTAL				450		. 7.4	

M.Sc. II (HOME SCIENCE) BRANCH II: HUMAN DEVELOPMENT ADVANCES IN RESEARCH IN HUMAN DEVELOPMENT (THEORY)

Marks: 100

Objectives:

1. To expand the vision we hold of human development and the systems within which it occurs.

1. To expand the systems with the system with the Thus, to reflect on life as fashioned currently and explore alternatives. 3. To facilitate an understanding of the following:

(a) the different aspects of human development that receive scholarly attention;

(a) the extent to which they are studied using a developmental framework;

(c) theoretical, methodological and substantive changes in conceptualizations over the years/recently;

(d) the inter-relationships between theoretical, methodological and substantive content and issues; and,

(e) the changes in explanations of human development over the years.

4. To examine alternative explanations of human development (e.g., by philosophers, theologians, religion, spirituality).

5. To reflect on the writings of exemplary researchers/scholars.

6. To hone scientific reading, analytical, and writing skills.

Course Content:

NOL

Unit I: Introduction and Overview Orientation to the course

(14)

Academic Perspective

(a) Meaning of Development Key issues inherent in definitions of development

(b) Understanding that the course is an advanced study of Human Development/ Developmental Psychology

(c) Understanding that the course will introduce the student to advancements in the field of Human Development/Developmental Psychology; differentiating between theoretical, methodological and substantive advancements.

(d) Understanding the relative and brittle nature of scientific truth. Processes and outcomes that characterize advancements in a(ny) science.

Alternative Perspective: Processes that explain advancements in science

Units II to IV: History/Nature of Advancements in Human Development/Developmental Psychology; Principles of Development (Parts 1, 2 & 3)

Academic Perspective

The field of Human Development/Developmental Psychology

History; nature of advancements/paradigmatic shifts

Principles of development

Issues in the study of development Issues in the study of development? How does human development proceed?

What characterizes developments, mechanistic versus organismic and the study of development? What characterizes development? Flow documents proceed?

What characterizes development? Flow documents proceed?

What characterizes development? Flow documents proceed?

(preformation versus epigenesis, mechanistic versus organismic explanations, structure proceed?

(preformation versus epigenesis, canalization, continuity versus discontinuity, resilience, planations, structure proceed? What characterizes epigenesis, mechanisms to the explanations, structure (preformation versus epigenesis, mechanisms versus discontinuity, resilience, structure (preformation versus epigenesis, mechanisms versus discontinuity, resilience, planticum techanical proformations of pathways, role of context in devel novelty/change/transformation.

novelty/change/transformation.

novelty/change/transformation.

novelty/change/transformation.

deceleration, multiplicity/plurality of pathways, role of context in development,

deceleration. indivisibility of developmental influences) indivisibility of developmental influence, individual indivisibility of developmental influence, individual individual

Alternative perspective: Principles characterizing development and life in general

Part I: H. Stevenson; R. Cairns & B. Cairns

Part II: J. Piaget; Reese and Overton; Sameroff

Part III: G. Gottlieb; R. Lerner; Mohanty and Prakash

Unit V: Physical Development and Motor Development

Issues in physical development and motor development: Academic perspective

(a) Evolutionary theory and human development; the evolution of human childhood

(b) Advances in the study of motor development

Alternative perspective: Deceleration

Unit VI: Gene-Environment Contributions in Human Development

(11)

Gene-environment contributions: Academic perspective

Advancements in understanding gene-environment contributions in human development The nature-nurture debate

Review of basic genetic principles; intelligence and gene-environment contributions; how people make their own environments; separating the inseparable; the indivisibility of reality

Alternative perspective: indivisibility

Unit VII: Cognitive Development and Language Development

(12)

Cognitive Development: Academic perspective

Perspectives in the study of cognition and cognitive development, with a special focuson current perspectives (multiple intelligences, bioecologic model of cognitive development, practical versus academic intelligences); mental abilities and cognitive styles; issues in the study of cognitive development/intelligence (metacognition, learning styles)

Alternative perspective

Language Development: Academic perspective

(a) Current perspectives in the study of language development

(b) Advancements in the study of bilingualism

Alternative perspective

Unit VIII: Emotional Development

Emotional Development: Academic perspective

History of the study of emotions; methodological and theoretical advancements in the study of emotions; the development of emotions with a special focus on the socialization of emotions; emotional intelligence

(8)

Inter-relationships between emotional, social, cognitive and language developments.

Alternative perspective: what constitutes emotional well-being, process of creating emotional well-being, inter-relationships between emotional, language and cognitive developments

Unit IX: Attachment, Personality, and Self-Conceptions Attachment (10)

Definition; theoretical contributions of John Bowlby; the Strange Situation Paradigm and Secure/Insecure Infants; recent advances related to the Strange Situation Paradigm with especial emphasis on facultative adaptations; issues related to narrow versus broad views of the scope of attachment; issues related to the durability versus plasticity of attachment classifications

Personality Development: Academic perspective

What is personality; tenability of personality; personality versus dynamism; the issue of continuity versus discontinuity in personality development

Alternative perspective: Tenability of personality

Self-Conceptions

Development of the self-system versus self-representations; contributions of William James; the looking glass self and Cooly; explanations for the durability of self-representations

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Unit X: Other Topics
Gender Typing, Socialisation, and Aggression: Changes in conceptualization and current perspectives

Role of Religion/Spiritual Development
Advancements in the study of religion/spiritual development in psychology

References:

Bogin, B. (1990). The evolution of human childhood. BioScience, 16-25.

Bronfenbrenner, U. (2004). Making human beings human: Bioecological perspectives on human development. Sage.

Chopra, D. (1987). Creating health. Beyond prevention, towards perfection. Boston:

Houghton Mifflin.

Damon, W. C. (Series Ed.) (1998). Handbook of child psychology. Volumes I, II, III and IV. NY: John Wiley.

Damon, W. (Series Ed.) (2006). Handbook of child psychology. Volumes I, II, III and IV. NY:

John Wiley.

Hakuta, K., & Garcia, E. E. (1989). Bilingualism and education. American Psychologist, 44 (2), 374-379.

Hanh, T. N. (1975/1991). The miracle of mindfulness. A manual on meditation. London: Rider. Hofsten, C. V. (1989). Motor development as the development of systems: Comments on the special section. Developmental Psychology, 25, 871-884.

Krishnamurti, J. (1994). The flame of attention. Madras: Krishnamurti Foundation of India. Krishnamurti, J. (1979/1997). Exploration into insight. Madras: Krishnamurti Foundation of

Kuhn, T. (1970). The structure of scientific revolutions. Chicago: The University of Chicago Press.

Kuhn, T. (2002). The road since structure: Philosophical essays, 1970-1993, with an autobiographical interview. Chicago: The University of Chicago Press.

Mohanty, A. K., & Prakash, P. (1993). Theoretical despairs and methodological predicaments of Developmental Psychology in India: Some reflections. In T. S. Saraswathi & B. Kaur (Eds.). Human development and family studies in India: An agenda for research and policy, pp104-121. New Delhi: Sage.

Mussen, P. H. (Ed.) (1983). Handbook of child psychology. Volumes I, II, III, and IV. New

York: Wiley.

Plomin, R., DeFries, J. C., McClearn, G. E., & Rutter, M. (1997). Behavioral genetics. New York: W.H. Freeman.

Reid, J. B. (1993). Prevention of conduct disorder before and after school entry: Relating interventions to developmental findings. Development and Psychopathology, 5, 243-262. Saudino, K. J., & Plomin, R. (1997). Cognitive and temperamental mediators of genetic contributions to the home environment during infancy. Merrill-Palmer Quarterly, 43 (1), 1-23. Wilson, R. A., & Keil, F. C. (Eds.) (1999). The MIIT encyclopedia of the cognitive sciences. Cambridge, Massachusetts: Massachusetts Institute of Technology (MIT) Press.

M.Sc. II (HOME SCIENCE) BRANCH II: HUMAN DEVELOPMENT HUMAN EXCEPTIONALITY AND PSYCHOLOGICAL DISORDERS (THEORY)

Marks:100

Objectives:

To help students gain knowledge about the different categories of exceptionality and abnormality, their prevalence, causes and prevention. To help students develop an awareness and concern for exceptional individuals, their needs

and problems.

3. To give information to the students regarding education, assessment and rehabilitation of exceptional individuals, with special reference to the Indian context.

Course Content in Units:

NOL

Unit I Defining and Differentiating Concepts

(6)

- (a) Definition of terms such as exceptionality, abnormality, handicap, disability, deviance, disorder, developmental pathology, impairment, special needs, differentlyabled and challenged.
- (b) Historical perspectives and current views on exceptionality and abnormality.
- (c) Relevance of studying Exceptionality and Abnormality in Human Development.
- (d) Theories and causes of abnormal behaviour
- (e) Classification of exceptionalities and abnormalities
- (f) Perspectives on labelling
- (g) Prevention in general

Unit II Physical and Functional Disabilities

- (a) Physical Disabilities (Definition, types, characteristics, prevalence, causation, identification, assessment, prevention, rehabilitation services for disabled adults)
- (b) Visual Impairment (Definition, types, characteristics, prevalence, causation, identification, assessment, prevention, rehabilitation services for visually impaired adults)
- (c) Hearing impairment (Definition, types, characteristics, prevalence, causation, identification, assessment, prevention, rehabilitation services for hearing impaired adults)
- (d) Multiple Disabilities

Unit III Gifted and Talented Individuals

(5)

- (a) Definition, concepts and characteristics
- (b) Identification, assessment
- (c) Working with gifted children and gifted adults

Unit IV Developmental and Learning Disorders (Part I)

(12)

(a) Mental retardation (Definition and classification; prevalence, causation, identification, assessment, prevention, rehabilitation into adulthood)

(b) Autism (Definition and characteristics; prevalence, causation, identification, rehabilitation into adulthood) assessment, treatment, prevention, rehabilitation into adulthood)

assessment, treatment, prevention, reliabilitation; assessment, treatment, prevention, reliabilitation; prevalence, causation; chabilitation)

theories; treatment, prevention, rehabilitation)

Unit V Developmental and Learning Disorders (Part II)

V Developmental and Learning Districts (14)

(a) Communication disorders (Definitions of communication, language and speech; Definition and types of communication disorders; prevalence, causation, Definition and types of communication, identification, assessment; prevention, working with children and adults with communication disorders)

(b) Learning disability (Definition, characteristics and types; prevalence, causation, identification, assessment; prevention, legislation and services (e.g., medical,

psychological, and educational).

Unit VI Behavioural disorders

(10)

(a) Attention Deficit Hyperactivity Disorder (DSM-IV defining characteristics, prevalence, causation; impact of family, peers ,school, society; treatment, prevention)

(b) Conduct Problems (DSM-IV defining characteristics, prevalence, causation; impact

of family, peers ,school, society; treatment, prevention)

Unit VII Emotional Disorders

(a) Separation Anxiety (DSM-IV defining characteristics, age of onset, prevalence, causation; developmental course, symptomatology; treatment, prevention)

(b) School Reluctance and Phobia (DSM-IV defining characteristics, age of onset, prevalence, causation; developmental course, symptomatology; treatment,

prevention)

(c) Obsessive-Compulsive Disorder (DSM-IV defining characteristics, age of onset, prevalence, causation; developmental course, symptomatology; prevention)

(d) Depression (DSM-IV defining characteristics, age of onset, prevalence, causation; developmental course, symptomatology; theories; significance of depression in young

people, adults with depression, treatment, prevention)

Unit VIII Health - Related Disorders (Part I)

(16)

(a) Elimination Disorders - Enuresis and Encopresis (Definitions, characteristics, prevalence, causes, treatment, prevention)

(b) Eating Disorders - Pica; Rumination; Anorexia; Bulimia; Obesity (Definitions,

characteristics, prevalence, causes, treatment, prevention

Chronic Illnesses - Diabetes, Asthma, etc. (Definitions, characteristics, prevalence,

impact, intervention, hospitalization and care of the dying child and adult)

Child Abuse and Neglect (Definition and types, prevalence, causes, consequences on psychopathology and adult outcomes, causes, prevention and intervention)

Unit IX Health - Related Disorders (Part II)

(a) Substance abuse (Factors influencing excessive drug use, prevalence, management and treatment)

(b) Terminal Illness - AIDS and Cancer (Characteristics, prevalence, impact, prevention; intervention, hospitalization and care of the dying child and adult)

(c) Sexual - Gynaecological Problems; Sexually transmitted diseases; Teenage pregnancy (Prevalence, causes, treatment, prevention)

Unit X Human Exceptionality and the Community (a) The parent, teacher and community partnerships

(5)

(b) Guidelines for working with parents of exceptional children and those with psychological disorders.

(c) Involving the community in advocacy and services for exceptional individuals

(d) Ethical concerns

References

Diagnostic and Statistical Manual of Mental Disorders (4th ed) (1994). New Delh: Jaypee Brothers.

Heward, W. L., & Orlansky, M. .D. (1992). Exceptional children. Columbus: Merill Publishing Co.

Hardman, M. L., Drew, C. J., & Egan, M. W. (1999). Human exceptionality. Boston: Allyn &

Mash, E.J. & Wolfe, D.A. (1999) Abnormal Child Psychology. California. Wadsworth.

Pirto, J. (1999). Talented children and adults. Their development and education. New Jersey: Merrill.

Sharma, U. (1996). Child development in India. Jaipur: Printwell.

Singh, D. (1995). Issues, policies and programs for child development in India. Delhi: Kanishka Publishing and Distributors.

Yesseldyke, J. E., & Algozine, B. C. (1998). Special education: A practice approach for teachers. New Delhi: Kanishka Pub.

M.Sc. II (HOME SCIENCE) BRANCH II: HUMAN DEVELOPMENT ADVANCED FAMILY STUDIES (THEORY)

	3: 3
Objectives: 1. To introduce the student to the key theories in family studies. 2. To have students reflect on and examine key issues in research in family studies.	
special focus on: (a) changing notions of family normality and models of family functioning, (b) marital dyad, and, (c) parent-child relationships. 3. To study the latest trends in family research.	
Course Content:	NOL
Unit I: Overview of Family Theories Existing family theories, their assumptions, values, propositions, and applications Structural/FunctionalismTheory	(10)
Developmental Theory Social Exchange Theory Symbolic Interaction Theory	
Conflict Theory Stress Theory	
Family Systems Theory Feminist Family Theory Biosocial Theory	
Unit II: Family Processes Changing families in a changing world: Reconstructing family normality	(8)
Models of Family Functioning: Family Function and Dysfunction Clinical views of family normality, health and dysfunction: Change in per- deficits to strengths	spective from
Olson Circumplex Model: Cohesion, adaptability and communication Beavers-Timberlawn Model of Family Competence Family resilience: Strengths forged through adversity	
Unit III : Marital Dyad	(12)
Measurement and Research on Marriages	-io ae
Conceptualization: Research and theory on the quality and stability of man	Tiago

neasure of dyadic adjustment: Related research Dimensions of marital quality Wife employment and marital quality Marital quality over the marital career

Marital satisfaction Bases of marital satisfaction among men and women Self-disclosure and satisfaction in marriages Childlessness and marital satisfaction Marital satisfaction over the family life cycle

Marital cohesion Maritan Communication and conflict in marriage

Marital sexuality

Marital types Marital enrichment

The Process of Divorce Theory and research related to marital dissolution Theory and Interpretation of divorce on children and adults: Risk and resilience Divorce intervention strategies

Joit IV: Parent-Child Relationships

Conceptual Models

Social mould perspectives: Parents as agents of socialization Parenting styles and child outcomes Child effects and reciprocity/Children's agency and mutuality Extradyadic and Systemic Models: The role of context Socio-cultural contexts of child rearing

Research Trends

Changing roles of fathers

Parent-child connectedness in adolescence: A super-protector against health and social problems

Parent-child relations in adulthood: Contexts, processes, and products of intergenerational relationships Models of parent education

Unit V: Special Topics: Current Trends in Family Research

(10)

The Politics of Reproduction and Fertility Control

The social construction of reproduction, including discourses and practices surrounding the body, pregnancy, birth, reproductive technology, and diseases. Ethical issues and social policies affecting women.

Multicultural Families

Advanced study of multicultural (racial, ethnic, social) families. Each group's unique cultural heritage and social environment.

Social Neuroscience

Social Neuroscience: A new field of research focusing on the impact of relationships and social systems on psychological health, physical health, and illness. Neurophysiological underpinnings of relationship-mind-body interconnections

Betrayal in Marital Relationships Disclosed and undisclosed affairs in married couples Disclosed and understanding between jealousy, secrecy and intimacy Interrelationships between jealousy,

References:

References:

Broderick, C. B. (1993). Understanding family process: Basics of family systems theory, sales of family systems theory, sales of family systems theory. Sales of family systems theory, sales of family systems theory. Sales of family systems theory, sales of family systems theory. Broderick, C. B. (1993). Unaerstations: History, theory, research, and context. Pearson Heath, P. (2005). Parent-child relations: History, theory, research, and context. Pearson Merrill Prentice Hall.

Merrill Prentice Hall.

Merrill Prentice Hall.

Ingoldsby, B. B., Smith, S., & Miller, J. E. (2004). Exploring family theories. Roxbury.

Roxbury. Ingoldsby, B. D., Silling, S., Handbook of dynamics in parent-child relations. Sage. Kuczynski, L. (2002). Handbook of dynamics in parent-child relations. Sage.

Kuczynski, L. (2002). Hamily diversity in India. Patterns, practices and ethos. Gyan. Roy, P. K. (2003). Family diversity in India. Patterns, practices and ethos. Gyan.

Roy, P. K. (2003). Family diversity in India.

Roy, P. K. (2003). Family diversity in India.

Saraswathi, T.S., & Kaur, B. (Eds.) (1993) Human development and family studies in India.

Saraswathi, T.S., & Mair, B. (Eds.) (1993) Human development and family studies in India. agenda for research and policy. Vedams.

Steel, L., & Kidd, W. (2001). The family. England: McMillan

Steel, L., & Kidd, W. (2001). And January Sussman, M., Steinmetz, S. K., & Peterson, G. W. (1999). Handbook of Marriage and the family. New York: Plenum.

Turner, L. H., & West, R. (2002). The family communication sourcebook. Sage.

Walsh, F. (Ed.) (2002). Normal family processes. Growing diversity and complexity. New York: Guilford.

Wipfler, P. (2003). Parenting by connection. Palo Alto, CA: Parents Leadership Institute. White, J. M., & Klein, D. M. (2007). Family theories. Sage.

Cacioppo, J. Overview of Social Neuroscience research.

http://psychology.uchicago.edu/people/faculty/cacioppo/index.shtml

"Beyond the Trauma of Betrayal," the fourth online symposium jointly sponsored by Family Process and PsyBC. is available in archive edition at www.psybc.com.

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M.Sc. II (HOME SCIENCE) BRANCH II: HUMAN DEVELOPMENT SUPERVISION AND ADMINISTRATION IN HUMAN DEVELOPMENT AGENCIES (PRACTICAL)

50 Marks:

Objective:

To provide students with training such that, on graduation, they can choose to be administrators and supervisors in human development agencies.

Course Content:

- 1. To enhance skills in assisting student teachers (trainees) to plan, execute, and evaluate developmentally appropriate activities for children in the following areas:
 - music and movement
 - fine-motor and gross-motor activities (e.g., blocks, manipulatives, outdoor play) (b)
 - transition activities (c)
 - art and craft activities (d)
 - math activities (e)
 - science activities (f)
 - language activities (e.g., picture talk/object talk/circle time/story time) (g)
 - socio-dramatic play (h)
- 2. To enhance skills in assisting student teachers to plan, execute, and evaluate developmentally appropriate activities for adolescents and adults in the following areas:
 - socially relevant issues (a)
 - (b) personal growth/self-esteem
 - emotional intelligence/spiritual intelligence (c)
- 3. To assist student teachers in developing skills in relation to the following:
 - (a) sensitivity in interacting with children and other target groups
 - building and enhancing relationships with children and other target groups (b)
 - observation and (rudimentary) assessment of children and other target groups and use in teaching.
 - building a resourceful repertoire of songs, stories, transition activities, and activities (d) enhancing each domain of development.

4. To ensure student teachers' successful participation in teamwork, and, in particular, to assist m in:

(a) honoring their own role in the team and respecting other team members and their

- roles
 (b) completing tasks in ways that create well-being for each team member including oneself, classmates, student supervisors and teacher supervisors
- 5. Clarity with regard to knowledge of the following areas is sharpened in this practical:

(a) Developmentally-appropriate practice

(b) Communication, guidance, and management

(c) Professional ethics

- (d) Administration practices in human development agencies
- 6. The following skills are targeted and honed in this practical:

(a) curriculum development skills

(b) observation and evaluation skills

- (c) skills in role-modeling planning, execution and evaluation of developmentallyappropriate activities
- (d) communication skills/skills in providing written and oral guidance to a trainee/distinguishing guidance from criticism/using appreciative and constructive feedback
- (e) skills in fostering own and trainee's self-worth
- (f) task management and facilitation skills (breaking task into simpler steps; setting and managing deadlines)
- (g) skills in working with individuals at different levels of an administrative hierarchy
- (h) professionalism (professional ethics and demeanour)

Methods

This course works in tandem with the T.Y.B.Sc. practicum course entitled Developmentally Appropriate Practices II. Thus, the M.Sc. students are divided into two groups; each group works with 15+ T.Y.B.Sc. students and a teacher supervisor.

M.Sc. student supervisors are provided guidance by the teacher supervisor in assisting skill development in T.Y.B.Sc. students. This includes guidance provided (a) separately to M.Sc. student supervisors in sessions where T.Y.B.Sc. students are excluded, as well as (b) during hands-on supervisory experiences with T.Y. B.Sc. students.

References:

Carter, M., & Curtis, D. (1998). The visionary director: A handbook for dreaming, organizing, & improvising in your center. St. Paul, MN: Redleaf Press.

& improvising Harkness, B., & Kuzma, K. (2000). Child care center management guide: A handson resource. Torrance, CA: Fearon Teacher Aids.

Click, P. M. (2004). Administration of programs for young children. Thomson Delmar

Learning. Koralek, D. G. (1995). The what, why, and how of high-quality early childhood education: A guide for on-site supervision. Washington, DC: NAEYC.

Leeper, S. H., Witherspoon, R. L., & Day, B. (1984). Good schools for young children. NY:

NAEYC. (1997). Developmentally appropriate practice in early childhood programs.

Washington, DC: NAEYC.

Neugebauer, B., & Neugebauer, R. (Eds.) (1998). The art of izadership: Managing early childhood organizations. Redmond, WA: Exchange Press

Sciarra, D. S., & Dorsey, A. G. (2002). Developing and administering a child care center. Thomson Delmar Learning.

Schiller, P. M., & Dyke, P. (2001). The practical guide to quality child care. Beltsville, MD: Gryphon House.

Verna, H. (1993). Management of child development centers. NY: Macmillan.

M. Sc. II (HOME SCIENCE) BRANCH III: TEXTILE AND FASHION TECHNOLOGY

Subject	Theory/ Practical	Internal Marks	University Marks	Total Marks	Periods/ Wk (of one hour each)	University exam hours	Intern Extern
Management and Business	Theory	10	40	50	2	2	Both
Administration Garment Production	Theory	10	40	50	2	2	Boti
Technology Textile and Garment Finishing	Theory	10	40	50	2	2	Bot
Textile Design and Advanced Computer Application	Practical	10	40	50	3	4	Botl
Draping (Woven and Knits)	Practical	10	40	50	3	4	Both
Apparel Design & Production (Paper II)- Knits	Practical	10	40	50	3	4	Both
Dissertation	Practical	75	75	150	10	Out do	Both
TOTAL	1.4			450		Carles	

M. Sc. II (HOME SCIENCE) BRANCH III: TEXTILES AND FASHION TECHNOLOGY MANAGEMENT AND BUSINESS ADMINISTRATION (THEORY)

Marks: 50

	To enha To make
Cours	e Conter

To	enhance	personal	and	professional	performance
	• .	1 .			-

e students aware and improve administrative and

Course Conte	nt:	NOL
Unit I.	Introduction and basic functions of management	(7)
Unit II.	Human resource development: a) Self awareness	(13)
: 1i -	b) Human Resource Development- Recruitment and selection, orientation, performance appraisal, training and evaluation	in the
And the W	c) Leadership and motivation d) Conflict management	
	 e) Stress management f) Group dynamics including decision making 	
Unit III.	Office management- systems and procedures.	(7)
Unit IV.	Finance management: a) Meaning, significance and objectives of finance management. b) Sources of finance. c) Working capital management. d) Tools of finance analysis and planning. e) Budget formulation and Auditing.	(13)
Unit V.	 Management of Information Systems: a) Information management- Role, need, and contemporary systems of management. b) Information Technology- Use of computers in administration and research. 	(10)

References:

Arora, S. P. (1980). Principles of business economics. Mumbai: Vipul Prakashan.

Aswathappa, K. (2005). Human resource and personal management. Text and cases. (4th Ed.).

New Delhi: Tata McGraw Hill Publishing co. Ltd.

D'Souza, A. (2001 Leadership. (5thIndian print). Mumbai: Better Yourself Books. Denyer, J. C. (1975). Office management. (4th Ed.). London: Macdonald and Evans Ltd.

Donnelly, J. H., (1995). Fundamentals of management.

Drucker, P. F. (1975). Management, tasks, responsibilities and practices. Bombay: Allied

Publishers.

Publishers.

Fisher, Cynthia, D. (1997). Human resource management. Chennai: All India Publishers.

Fisher, Cynthia, D. (1997). Principles of management. Illinois: Learning Systems. George T. (1978). Principles of management. Illinois: Learning Systems.

George T. (1978). Principles of management. India.

George T. (1978). Management of organizational behaviour. (7th Ed.). New Delhi: Prentice. Hall India Travel Delhi: All India Travel Delhi: All India Travel Delhi: Prentice. Hall India Travel Delhi: All India Travel D

of India Pvt. Ltd.

Ivancevich, J. M. Management principles and functions. Delhi: All India Travel Books. Kale, N. G. (2000). Business management. Mumbai: Vipul Prakashan.

Kale, N. G. (2000). Business management is the name of the game. Bombay: India Book House, Kulkarni, L. G. (1984). Management is the name of the game. Bombay: India Book House,

Kulkarni, L. G. (1984). Management is the management in your business. Northamptoshire.

Lockett, J. B. (1987). The most effective management in your business. Northamptoshire.

Thomsons.

McGrath, E. H. (1989). Basic managerial skills for all. (3rd Ed.). New Delhi: Prentice- Hall of India private Ltd.

Naik, S. P. (1993). Principles of Business economics. Mumbai: Vipul Prakashan. Naik, S. P. (1993). Principles of Bushield Northcote, P.C. and Rustomji, M. K. (1986). Excellence in management. Bombay: Mirchandani Publishers.

Publishers.
Prasad, L. and Banerjee, A., (1985). Management of human resources. New Delhi: Sterling Publishers Pvt. Ltd.

Publishers Pvt. Ltd.

Rao, V. S. P. (2005). Human resource management: Text and cases. (2nd Ed.). New Delhi: Excel Books.

Books. Schafer, W. (1998). Stress management for wellness. (4th Ed.). Belmont: Wadsworth Thomson

Learning.
Sekaran, U. (1998). Organizational behaviour: Text and Cases. (7th. Ed.). New Delhi: Tata McGraw Hill Publishing Company. Ltd.

Snell, Scott. (2007). Human resource management. Australia: Thomson/South-western. Vaz, M. (1997). Management and human resource development. (9th Ed). Mumbai: Manisha Prakashan.

Wendell, F. (1997) Human resource management. Chennai: All India Publishers.

M. Sc. II (HOME SCIENCE) BRANCH III: TEXTILE AND FASHION TECHNOLOGY

GARMENT PRODUCTION TECHNOLOGY (THEORY)

Marks: 50 Objectives: 1. To enhance personal and professional performance. 2. To make students aware of the industrial performance. To impart the knowledge of the industrial sewing machines equipment and plant layouts. Course Content: NOL Production, management, planning and control. (10)Ilnit I. a) Total quality management (TQM) b) Industrial efficiency c) Industrial sickness a) Drafts layouts, layering and consumption (10)Unit II. b) Industrial sewing machines, needles, irons and other equipments. (10)Industry Plant layouts- Types followed in Industry with their Ilnit III. advantages & disadvantages. (10)Formats and worksheets used in various departments. Unit IV. Cost Sheets. Computer technology in garment manufacture (10)Unit V. References: Batty, J. (1975). Industrial administration and management. (3rd Ed.) London: The English language book society and McDonald and Svans. Claire, B. (1981). The complete book of sewing shortcuts. New York: Sterling publisher Dani, L. M. (1990). Industrial organization and management. Bombay: Manan publisher Kallal, M. (1985). Clothing construction. London: Macmillan Publishing Co. Inc. Kale, N. G. (1997). Management and human resource development. (6th Ed.) Mumbai: Manisha. Michael, V. & Paralkar, V. (1997). The editors of times-life books, Netherlands: Time-life B. V. International. Mehta Pradir V. (1992) An Introduction to Quality Control for the Apparel Industry. ASQC. Quality Press, Marcel Dekker, Inc. Milwackee, New York, Dasel, Hongkong.

M. Sc. II (HOME SCIENCE) BRANCH III: TEXTILE AND FASHION TECHNOLOGY TEXTILE AND GARMENT FINISHING (THEORY)

Marks: 50

Objectives:

- 1. To study about the chemicals used in textile finishing, along with the essential properties of raw materials used in their manufacture.
- 2. To study the recent developments in various finishing processes.

Course Content:		NOL	
Unit I.	Introduction to and classification of textile auxiliaries, concept of water surface activity, hydrophilic and lyophilic balance.	(7)	
Unit II.	Cationic, anionic and nonionic surfactants, soaps.	(10)	
Unit III.	Current textile garment finishing in use: Durable press/easy care finishes, water-proof and water repellant finishes, anti-soil and soil release finishes, flame retardant finishes antibacterial and anti-fungal finishes, etc. Various chemicals and method used in obtaining these finishes, their mode and mechanism of reaction, effect on various fabric and fabric properties.	(16)	
Unit IV.	Eco concerns of the above finishes.	(10)	
Unit V.	Recent developments in textile and garment finishing.	(7)	

References:

Charan K. (1980). Technology Of Laundry And Toilet Soaps. New Delhi: S. B. Publications. Davidson A. & Milwidsky B. M. (1978). Synthetic Detergent. Bombay: The Book Center. Hall A. J. (1986). Textile Finishing. London: American Elsevier.

Nallankilli G. & Jayaprakashan S. (1997). Textile Finishing. Kamarpalayam: S. S. M. Publications

Reevco W. A., Orake G. K. & Perkins R. M. (1974). Fire Resistant Textiles: Handbook. Westpost: Technomic.

Schindler, W.D. and Hauser, P.J. (2000) Chemical finishing of textiles England: Woodhead Publishing Ltd.

Shenai V. A. (1980). Chemistry of Textile Auxiliaries. Vol V. Bombay: Sevak. Srivastava S. B., Gupta R. K. & Gupta R. (1980). Household Detergents and Industrial Surfactants. New Delhi: Small Business.

M. Sc. II (HOME SCIENCE) BRANCH III: TEXTILE AND FASHION TECHNOLOGY TEXTILE DESIGNING AND ADVANCED COMPUTER APPLICATION (PRACTICAL)

Marks: 50

Objectives:

- 1. To introduce students to the various textile designing concepts through weaving, printing and embroidery for different end uses.
- 2. To enhance the creativity of students in designing.
- 3. To introduce students to various advanced textile designing software packages.

Course Content:

- Woven, printed, and embroidered textile designing (3-4 of each) for various end uses like apparel, accessories and home furnishings and using various repeat 1. units-manual work
- Western embroidery (Bargello, Cross stitch, Cutwork, Ribbon embroidery, 2. Bead work) sampler-manual work.
- Creative designing and construction of apparel, fashion accessory and home 3. furnishing (one of each)
- Demonstrations in Advanced computer aided textile woven and printed designs. 4.
- Journal and Presentation 5.

Beginner's guide to silk ribbon embroidery (1998). (1st Ed.). Kent: Search Press Ltd. Cable, S. (1997). Silk ribbon embroidery. (1st Ed.). N.Y. The reader's digest association, Dalley, T. (1988). The complete guide to illustration and design: techniques and materials. New

Drawn thread embroidery, (1977) Anchor Embroidery Book No.650 Coats Sewing Group,

Elders, K. (1998) Embroidery Projects Techniques: motifs, Quadrilla London: Publishing Ltd. Embroidery and cross stitch (1983) for framing, Tokyo: Ondarisha publisher.

Embroidery and cross stitch. (1977). Australia: Craft World Books Pvt. Ltd.

Encyclopedia and embroidery (1984) London: Marshall Cavendish Books Ltd., Gostelow, M. (1977). Embroidery: Traditional designs, techniques and patterns from all over

the world. London: Marshall Cavendish Books Ltd,

Griffiths, A. (1989). An introduction to embroidery, London: Apple Press.

Joyce, C. (1993). Textile design. New York: Watson Guptill.

Kreinik, J., & Friedman, (2003) Metallic threads embroidery, Devan, David and Charles Book



Mackrel, A. (1997). An illustrated history of fashion: 500 years of fashion illustration. London: B. T.

Mellick & Trott. (2002). Beginner's guide mount embroidery. Kent: Search Press Ltd. Norden, Mary (1997), Decorative embroidery, New York: The Reader's Digest Association Inc.

Ondari, Embroidery, Book 2 Japan: Olympus family club

Pauline, B. Encyclopedia of embroidery techniques by, Kent: Search Press Ltd.

Seaman, J. (1996). Fashion illustration - Basic techniques. B. T. Batsford.

Shenai, V. A. (1977). History of textile design. Bombay: Sevak.

Snook, B., (1972). The creative art of embroidery, Hamlyn: Publishing Grp. Ltd. London. Tate, S. L. (1987). The complete book of fashion illustration. (2nd Ed.). New York: Harper and Row.

Turpenny, J. M. (1983). Fashion design and illustration II: Knitwear and jersey. Century Hutchinson.

Turpenny, J. M. (1986). Fashion design and illustration, basic guidelines. Century Hutchinson Ltd.

Winfred, A. (1994) CAD in clothing and textiles. (2nd Ed.) Oxford: Blackwell Science Ltd.

Related software catalogues.

M. Sc. II (HOME SCIENCE) BRANCH III: TEXTILE AND FASHION TECHNOLOGY DRAPING (WOVEN AND KNITS) (PRACTICAL)

Marks: 50

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Objectives:

1. To acquaint students with the techniques of draping for woven and knitted fabrics.

2. To design and construct garments using the principles of draping.

Course Content:

	the second of th	Refere
1.	Basic bodice, torso, dartless sloper and skirt.	nces:
	🐝 – gog – oka předagá uskuplou ši – to coko se se	Armstr
2.	Displacement and concealment of darts.	ong, H
-		.J.
3.	Draping of four patterns including different collars, sleeves and concealments	(2000)
	using woven and knitted fabrics. (theme garment)	
		Drapi
4.	Speed Test (4 Garments)	ng for
		appare
5.	Journal and Portfolio	1
		design
		New

York: Fairchild publications.

Cloake, D. (1976) Fashion design on the stand. Batsford publication.
Crawford, Connice, A. (1989) The art of fashion draping. Fairchild's Publication.
Goulboum, M. (1971) Introducing pattern cutting, grading and modeling. Batsford publication Mee, J. & Prudy, M. (1987) Modelling on the stand. Oxford: BPS Professional Books.
Silberg, L., & Shoben, M. (1992) The art of dress modeling. Oxford: Butterworth Heinmann publication.

Stanley, H. (1983) Modeling and flat cutting for fashion. Hutchison Education publication.

M. Sc. II (HOME SCIENCE) BRANCH III: TEXTILE AND FASHION TECHNOLOGY APPAREL DESIGN AND PRODUCTION (PAPER II)-KNITS (PRACTICAL)

Marks: 50

Objectives:

- 1. To familiarize students with special techniques of apparel making with knitted fabrics.
- 2. To acquaint students with the art of handling different knitted fabrics and styles
- 3. To acquaint students with the technique and skills of pattern making and stitching.

Course Content:

- Pattern Drafting
 - a) Child and adults basic block, dartless sloper and sleeves.
 - b) Displacements and concealments of darts.
- Introduction to the different types of fabrics: viz. warp and weft knits. Calculations for Knits.
- 3. Theme based designing, flat pattern construction and stitching of knitted garments. (Total 6 garments)
 - a) Night-wear
 - b) Jacket/Vestcoat
 - c) Shirt/T-shirt/Top
 - d) Lingerie
 - e) Leg-wear
 - f) Party-wear

Following concepts and fundamentals to be included in garments or as samples.

- a) Concealments
- b) Sleeves
- c) Collars & Necklines
- d) Pockets & Zip attachments (Invisible and with seam).
- e) Plackets
- 4. Speed Test Garments (4)
- Journal and Presentation

References:

Reference, D. B. (1998). Knitting technology. Mumbai: Mumbai Universal.

Aldrich, W. (1994). CAD in clothing and textiles. (2nd Ed.) Oxford, Blackwell, Science.

Armstrong, H. (1986). Pattern making for fashion designing. New York: Harper Collins.

Armstrong, H. (1987). Pattern making for fashion designing. New York: Harper & Row.

Armstrong, H. J. (2000). Draping for apparel design. New York: Fairchild.

Bradley, G. (1954). Costume design. (3rd Ed.) Searnton: International Textbook.

Carr, H. (1994). The technology of clothing manufacture. (2nd Ed.) Oxford: Blackwell Scientific.

Dunn, L. (1970). Steps in clothing skills. Illinois: Chas A. Bennett.

Goulbourn, M. (1971). Introducing pattern cutting, grading and modeling. London: B. T. Batsford.

Graff, J. L. (1976). Concepts in clothing. New York: McGraw Hill.

Kaiser, S. B. (1985). The social psychology of clothing. New York: Macmillan.

Kefgen, M. (1986). Individuality in clothing selection and appearance. (4th Ed.) New York:

Liddell, L. A. (1981). Clothes and your appearance. Illinois: The Goodheart Will Cox.

Minott, J. (1978). Fitting commercial patterns. Minneapolis: Minnesota Burgess.

Spencer D. (1989). Knitting technology (2nd Ed.) Cambridge: Woodhead.

Stanley, H. (1977). Modeling and flat cutting for fashion. London: Hutchison.

Turnpenny, J. M. (1983). Fashion design and illustration11. Knitwear and jersey. London: Century Hutchison.

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scientific protocol; writing the third chapter of the dissertation, namely, the Re

M.Sc. II (HOME SCIENCE) COMMON PAPER: FOR ALL THREE BRANCHES DISSERTATION (PRACTICAL)

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Marks:	150
	120

Objectives:

 To provide students with an opportunity to conduct independent research in their specialization (i.e., Foods, Nutrition and Dietetics; Human Development; and, Textile and Fashion Technology) under supervision.

2. To encourage students to work in conjunction with relevant industries, institutes, hospitals,

schools, etc.

 To assist students in developing general research skills as well as research skills specific to their specialization.

4. To encourage students to adopt best practices in research.

Course Content:

- Contacting and communicating with experts (locally, nationally, and internationally)
 initially and periodically throughout the research process; reading relevant literature (e.g.,
 scientific journals, dissertations, theses, books, literature on the Net); selecting
 appropriate topics in one's specialization; prioritizing these topics; checking topics for
 feasibility.
- 2. Identifying possible focus areas with regard to one topic; specifying one such focus area (using relevant reading and communication with experts); writing research objectives/ questions/ hypotheses; conducting a thorough literature review; presenting a clear and convincing argument in support of the study; writing the first chapter of the dissertation, namely, the *Introduction and Review of Literature*, with due acknowledgement of source of ideas.
- 3. Specifying variables; defining variables (citing relevant literature); selecting an appropriate research design; making decisions related to sampling; selecting and/or constructing tools, pilot-testing tools; making a plan of analysis; writing the second chapter of the dissertation, namely, the Methods, with due acknowledgement of source of ideas; orally defending a research proposal; integrating feedback.
- Collecting data; entering data (preferably using a computer software programme); conducting preliminary analyses; revising the first two chapters of the dissertation.
- Analyzing data; interpreting findings; reporting results in figures/tables and text using scientific protocol; writing the third chapter of the dissertation, namely, the Results, by research objectives/ questions/hypotheses; orally presenting the results and integrating feedback.

- 6. Corroborating own findings with those in previous research; explaining findings using relevant literature and communication with experts; discussing implications of findings for practice/ industry/family/society; suggesting recommendations for future research; writing the fourth chapter of the dissertation, namely, the Discussion, using appropriate scientific protocol.
- 7. Writing the fifth chapter of the dissertation, namely, the Summary; writing the abstract; revising previous chapters as necessary; completing all other relevant work for the dissertation (e.g., reference list, appendices, table of contents, and list of figures/tables); submitting the dissertation for the viva voce examination.
- 8. Orally defending the dissertation; integrating feedback into the final document; submitting the completed dissertation (hard copy and soft copy).
- 9. Using the dissertation to write a research article; submitting the research article (hard copy and soft copy).