# **UNIVERSITY OF MUMBAI**

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# No.UG/ICC/2016-17/ 62\_\_\_ MUMBAI- 400 032 '6 November, 2016

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

Madam,

I am to invited your attention to the Syllabi relating to the Bachelor of Science (Home Science) degree program vide this office Circular No. UG/316 of 2011, dated 27th September, 2011 and to inform you that the recommendation made by the Ad-hoc Board of Studies in Home Science at its meeting held on 30<sup>th</sup> June, 2016 has been accepted by the Academic Council at its meeting held on 14<sup>th</sup> July, 2016 vide item No.4.51 and that in accordance therewith, the revised syllabus as per the Choice Based Credit System for F.Y. B.Sc. Home Science (Sem. I & II), which is available on the University's web site (www.mu.ac.in) and that the same has been brought into force with effect from the academic year 2016-17.

Yours faithfully,

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(Dr.M.A.Khan) REGISTRAR

## A.C/4.51/14/07/2016

### **UNIVERSITY OF MUMBAI**



Revised Syllabus SEMESTER I & SEMESTER II Program: B.Sc. Course: Home Science

(Choice Based Semester Grading System with effect from the Academic Year 2016–2017)

#### PREAMBLE

Home Science is an interdisciplinary science, which offers holistic and socially-relevant educational programmes. Home Science has emerged as a full-fledged scientific course in which overall improvement in the quality of life of the individual, family, and community is sought. There is a prominent emphasis on professional competence and sensitivity to the needs of society. The degree courses are B.Sc. (Home Science), M.Sc. (Home Science) and Ph.D. (Home Science). The four main areas of specialization are as follows:

- 1. Foods, Nutrition and Dietetics
- 2. Human Development
- 3. Textile and Fashion Technology
- 4. Community Resource Management

The objectives of the Home Science curriculum are as follows:

- 1. To impart knowledge and facilitate the development of skills and techniques in the different areas of Home Science (namely 'Foods, Nutrition and Dietetics'; 'Human Development'; 'Textile and Fashion Technology'; and 'Community Resource Management') required for personal, professional and community advancement.
- 2. To inculcate in students, values and attitudes that enhance personal and family growth and to sensitize them to various social issues for the development of a humane society.
- 3. To promote in students a scientific temper and competencies in research to enable contributions to the national and international knowledge base in Home Science and allied fields.
- 4. In sum, to empower our women students such that they are able to effect positive changes at multiple levels.

COURSE CODE	COURSE TYPE	TITLE OF THE COURSE	WORKLOAD		NO. CREI	
			L	Р	Т	Р
USHS101	Core Subject	Food Science	3	-	3	-
USHS102	Core Subject	Child Development	3	-	3	-
USHS103	Core Subject	Fibre to Fabric	3	-	3	-
USHS104	Core Subject	Aesthetics in Interiors	3	-	3	-
USHS105	Foundation Course - Ability Enhancement Course 1	Contemporary Social Issues *Computer Application (Value-Added)	3	-	2	-
USHSP101	Core Subject Practical	Food Science	-	3	-	2
USHSP102	Core Subject Practical	Pattern Making and Styling for Kidswear	_	3	-	2
USHSP103	Core Subject Practical	Aesthetics in Interiors	-	2	-	2
					14	6

#### SEMESTER I

• Additional fee will be charged for the computer classes. Unless a student passes the Computer Examination, the student will not get the credits of the said paper.

Course Code	Title of the Course	Lectures / week	Marks allotted	Credits for the Course
USHS101	Food Science	3	100	3

- 1. To acquire knowledge of various concepts of Food Science, its facts and principles.
- 2. To understand nutritional importance of various food groups.
- **3**. To develop the ability to select and apply the principles of Food Science to practical situations.

Unit	Course Content	Lectures
I	<ul> <li>Introduction to food science <ul> <li>Concept of Food Science and Nutrition.</li> <li>Reasons for cooking foods.</li> <li>Cooking Methods-Dry heat methods and Moist heat methods.</li> </ul> </li> <li>Introduction to various food groups - Classification, structure, nutritive value, selection,, storage and elementary principles of cooking involved in the following food groups: <ul> <li>a. Cereals</li> <li>b. Pulses &amp; Legumes</li> <li>c. Nuts &amp; Oilseed</li> </ul> </li> </ul>	15
II	Introduction to various food groups - Classification, structure,Nutritive value, selection, storage and elementary principles of cooking involved in the following food groups: d. Fats & Oils e. Sugar & Jaggery f. Vegetables & Fruits	15
III	Introduction to various food groups - Classification, structure, nutritive value, selection, storage and elementary principles of cooking involved in the following food groups: g. Milk h. Eggs i. Flesh Foods-Fish, Meat & Poultry j. Spices & Condiments	15

#### **References :**

Arora K. (1993). Theory of Cookery. New Delhi: Frank Bros. and Co.
Bennion, M. (1975). Introductory Foods. New York:Mac Millan Publishing Co. Inc.
Manay, N.S. (1995). Food Facts and Principles. New Delhi: New Age International
Macwilliam M. (1980). Food Fundamentals. New York: John Wiley & Sane.
Srilakshmi. B. (1997) Food Science. New Delhi:New Age
Swaminathan, M. (1991). Food Science & Experimental Foods. Madras: Ganesh & Co.

Course Code	Title of the Course	Lectures / week	Marks allotted	Credits for the Course
USHS102	Child Development	3	100	3

- 1. To introduce students to the scientific study of childhood and the principles of child development.
- 2. To help students learn about the key features of physical, motor, cognitive, language, social and emotional development in childhood, covering the period from conception to late childhood.
- 3. To create an awareness of the various factors that influence and stimulate growth and development during the prenatal period, infancy, toddlerhood, preschool years, and school years.

Unit	Course Content:	Lectures
I	Introduction, Prenatal Development, and Infancy         (a) Importance of studying children; status of children in the world and in India; methods of studying children         (b) Concept of development, principles and issues of development (nature and nurture; continuity and discontinuity; early experience versus later experience; stages or gradual development; role of context/culture)         (c) Prenatal development         • Stages of prenatal development and mother's experience of pregnancy         • Teratology and hazards to prenatal development         • Prenatal care         • Cultural beliefs about pregnancy         (d) Birth and the postpartum period         • Birth process and complications         • Physical, emotional, & psychological adjustments in the postpartum period         • Growth patterns: cephalocaudal & proximodistal patterns         • Body growth and change in infancy, early childhood, and middle and late childhood         • Early experience and the brain; development of the brain in childhood         • Reflexes, gross motor skills, and fine motor skills	
П	(a) Cognitive development	15

		1
	<ul> <li>Characteristics of preschooler's thought (Piaget's and</li> </ul>	
	Vygotsky's theories and extensions)	
	<ul> <li>Preschooler's attention and memory abilities</li> </ul>	
	<ul> <li>Social cognition in preschool years</li> </ul>	
	<ul> <li>Cognitive development in school years (Piaget's &amp;</li> </ul>	
	Vygotsky's theories and extensions)	
	<ul> <li>Concept of intelligence; individual differences in</li> </ul>	
	intelligence	
	(b) Language development	
	<ul> <li>Defining language</li> </ul>	
	• Language development in infancy, early childhood, and	
	middle and late childhood	
	<ul> <li>Multingualism: advantages and challenges</li> </ul>	
	• How parents and the family environment can facilitate	
	language development	
III	Social and Emotional Development in Childhood	15
	(a) Theoretical perspectives (Freud, Erikson, and extensions)	
	(b) Social and emotional development in infancy	
	<ul> <li>Origins of reciprocity</li> </ul>	
	• Attachment, stranger distress, separation anxiety	
	0 Temperament	
	<ul> <li>Sensitive period hypothesis</li> </ul>	
	(c) Social and emotional development in toddlerhood	
	<ul> <li>Views of socialization</li> </ul>	
	• Growth of sociability	
	• Awareness of self and others	
	• Parent-toddler relations	
	(d) Social developmental changes in early childhood	
	<ul> <li>Child's expanding world</li> </ul>	
	<ul> <li>Self-control and self-management</li> </ul>	
	• The developing self	
	(e) Social development in middle and late childhood	
	• Development of the self	
	• Peer relations	
	• Children in school	
	<ul> <li>Functions of play</li> </ul>	
	(f) Family influences	
	• Quality of care	
	• Parenting styles and their influences	
	<ul> <li>Sibling relationships</li> </ul>	
	(g) Linkages between family and peer relations	
Reference	A6.	

DeHart, G. B., Sroufe, L. A., & Cooper, R. G. (2004). *Child development: Its nature and course* (5th ed.). NY: McGraw-Hill.

Santrock, J. W. (2013). *Child development* (14<sup>th</sup> ed.). NY: McGraw-Hill. Sroufe, L. A., Cooper, R. G., & DeHart, G. B. (1992). *Child development: Its nature and course*. NY: McGraw-Hill.

Course Code	Title of the Course	Lectures / week	Marks allotted	Credits for the Course
USHS103	Fibre to Fabric	3	100	3

- 1. To introduce students to the basics of textile fibers, yarns and fabrics.
- 2. To give an insight into the new developments in textiles.
- 3. To equip students with the knowledge of the care and maintenance of textiles.

Unit	Course Content	Lectures
Ι	Fibers:	15
	a. Introduction to textile fibers	
	b. Introduction to polymerization and molecular arrangement of fibers	
	c. Classification of fibers	
	d. Brief study of the cultivation/manufacturing processes, properties and	
	uses of the following major fibers:	
	Cotton, Jute, Linen, Wool, Silk	
	Viscose Rayon	
	Nylon, Polyester, Acrylic e. Study of blends – blending and its advantages, common blends and end	
	uses	
	f. Brief study of minor fibers: source, properties and end uses	
	Natural (cellulosic): Hemp, Pina, Kapok, Banana	
	Natural (proteinic): Mohair	
	Synthetic: Elastomeric, Metallic, Glass, Carbon	
	g. Recent Developments	
	h. Sourcing of different fabrics	
	i. Companies/centres/clusters, for fibre manufacture/cultivation	
	j. Recent Trends and Future Trend Forecast of Fibres in the Textile &	
	Fashion Industry	
II	Yarns:	15
	a. Introduction to yarns	
	b. Yarn formation: Brief history of spinning (hand and mechanical	
	spinning)	
	c. Spinning: i.Yarn twist: Definition, Directions and Types of twist	
	ii.Spun yarn: Ring spinning and Open-end spinning	
	iii.Filament yarn: Monofilament, Smooth filament, Tape and	
	network yarns, Bulk continuous filament yarn	
	d. Classification of yarns: single, complex, composite	
	e. Recent Developments	
	f. Sourcing for Yarns	
	g. Companies/centres/clusters, for yarns	
	h. Recent Trends and Future Trend Forecast of Yarns in the Textile &	
	Fashion Industry	
III	Fabrics:	15
	Woven: Yarn preparatory stages, parts of the loom, steps in weaving and	
	basic weaves (plain, satin, sateen and twill)	
	Knitted: Introduction to knitting, Weft knitting (flat and circular) Warp	
	(tricot and raschel), properties and uses	

Non-woven: Definition, manufacture, properties and uses	
d. Care labels	
e. Recent Developments	
<b>f.</b> Sourcing for Fabrics	
g. Companies/centres/clusters, for Fabrics	
h. Recent Trends and Future Trend Forecast of Fabrics in the Textile &	
Fashion Industry	

Ajgaonkar, D. B. (1998). Knitting Technology. Mumbai: Universal Pub. Corporation

Brannon, Evelyn L. (2010) Fashion Forecasting. 3d ed. New York: Fairchild.

Corbman, B. P. (1985). *Textiles: Fibre to Fabric*. (6<sup>th</sup> Ed.).New York: Gregg Division/McGraw Hill

Collier, B. J. and Phyllis, G. T. (2001). Understanding Textiles. New Jersey: Prentice Hall.

Cook. J.G (2001) Handbook of Textile fibers- Vol I Woodhead Publishing Ltd.Cambridge

D'Souza, N. (1998). Fabric Care. India: New Age International.

Gohl, L.P.G And Velinsky L.D(2005) *Textile Science* (2<sup>nd</sup> Ed.) CBS Publishers and Distributors, New Delhi

Gokerneshan, N (2004), Fabric Structure and Analysis, New age International Publishers, New Delhi

Gong, R. H. and Wright, R. M, (2002) Fancy Yarns: Their manufacture and application, Woodhead Publishing Ltd, Cambridge

Hollen, N., Saddler, J., Langford, A.L. & Kadolf, S.J. (1988). *Textiles*. (6<sup>th</sup> Ed). New York: Macmillan.

Joseph, M. L. (1972).*Introductory Textile Science*.(2<sup>nd</sup> Ed.). New York: Holt, Rinehart and Winston.

Joseph, M. L. (1975). Essentials of Textiles. New York: Holt, Rinehart and Winston.

Kerr, Hillary. (2009) *Who What Wear: Celebrity and Runway Style for Real Life*. New York: Abrams.

Kim, Eundeok. (2011) Fashion Trends: Analysis and Forecasting. Oxford; New York: Berg.

Martin, Raymond. (2010) The Trend Forecaster's Handbook. London: Laurence King, 2010.

McKelvey, Kathryn. (2008) Fashion Forecasting. Chichester, U.K.; Ames, IA: Wiley-Blackwell.

- Mishra, S.P. (2000) A Text Book of Fibre Science and Technology, New age International Publishers, New Delhi
- Needles, H. L (2011), Textile Fibers, Dyes, Finishes and Processes, A Concise Guide, Noyes Publications, New Jersey
- *Rousso, Chelsea. (2012) Fashion Forward: a Guide to Fashion Forecasting.* New York: Fairchild.

Sekhri, S. (2011). Fabric Science, PHI Learning Private Ltd. New Delhi

- Shenai, V. A. (1991). Technology of Textile Processing. Vol. 1.(3rd Ed.). India: Sevak.
- Sinclair, R. (2015), Textiles and Fashion Materials, Design and Technology, Woodhead Publishing Cambridge
- Tortora, P.G. (1978). Understanding Textiles. New York: Macmillan.

Wynne, A. (1997). Textiles – The Motivate Series. London: Macmillan Education.

Udale Jenny (2008), Textile and Fashion, AVA publishing, Switzerland\

Vidyasagar, P.V ((1998), Handbook of Textiles, Mittal Publications, New Delhi

Course Code	Title of the Course	Lectures / week	Marks allotted	Credits for the Course
USHS104	Aesthetics in Interiors	3	100	3

- 1. To help students understand the basic terminology of art and design.
- 2. To develop skills, abilities, knowledge and attitudes that will enable artistic production and creative problem solving.
- 3. To enable students to apply concepts of art and design to create aesthetically pleasing interiors.
- 4. To impart knowledge and skills for aesthetic appreciation and evaluation.

Unit	Course Content	Lectures
Ι	<ul> <li>Basics of Design Composition</li> <li>a) Objectives of Design</li> <li>b) Types of Design : Structural and Decorative</li> <li>c) Elements of Design : Line, Form, Colour, Texture, Space ,Light and Pattern</li> <li>d) Design Principles: Balance, Rhythm, Emphasis, Proportion, Harmony.</li> <li>e) Applications in Interior Design</li> </ul>	15
П	<ul> <li>Interior Space Planning</li> <li>a) Factors to be considered while designing of a house: Orientation, Circulation, Privacy, Grouping of rooms, Economy</li> <li>b) Ventilation</li> <li>c) Lighting</li> <li>d) Services</li> <li>e) Colour planning</li> <li>f) Introduction of concepts of Plan and Elevation.</li> </ul>	15
III	Interior Furnishinga) Furnitureb) Wall and Wall Finishesc) Doors and Door Typesd) Window and Window Treatmentse) Accessories for Home Decorf) Floor and Floor Finishesg) Man as a consumer of design, qualities and role of a good InteriorDesigner, Designing VS Decoration, Interior design as a career optionh) Ethics for Professional Practice	15

#### **References:**

Allen. P. S. (1985). Beginnings of Interior Environment (5th Ed), Macmillan Publishing Co. London.

- Bhatt. P. & Goenka S. (2001); Foundation of Art & Design (2nd Ed). Lakhani Book Depot. Mumbai
- Cliffton C., Mogg & Paine. M. (1988). The Curtain Book. Reed International Books. New York.
- Craig. H. T. (1987). Homes with Character. Glencoe Publishing Co. Inc. U.S.A.
- Gilliat M. (1986). The Decorating Book. Library of Congress Cataloguing Publications, Great Britain.
- Lewis E. L. (1980). Housing Decisions, The Good Heart, Willcox Co. Inc. Great Britain.
- Seetharaman. P. & Pannu. P. (2005). Interior Design & Decoration. First Edition, CBS Publishers & Distributors. New Delhi.

Course Code	Title of the Course	Lectures / week	Marks allotted	Credits for the Course
USHS105	Contemporary Social Issues	3	100	2

- 1. To develop a basic understanding about issues related to diversity and disparity.
- 2. To gain an overview of the Indian Constitution and the political process.
- 3. To develop a basic understanding about issues related to human rights and sustainable development
- 4. To gain an insight into the process of stress management and conflict resolution
- 5. To understand the growing social problems in India and the methods to combat it.

Unit	Торіс	No of periods
Ι	<ul> <li>Concept of diversity and disparity</li> <li>Concept of Diversity in India—cultural, population ,linguistic, regional and communal</li> <li>Disparity –causes and consequences         <ul> <li>Gender</li> <li>People with disabilities</li> <li>Caste system.</li> </ul> </li> <li>Intergroup conflicts due to caste, communal, regionalism and linguistic differences.(causes and effects)</li> </ul>	15
Π	<ul> <li>A. The Indian Constitution and Political Process.</li> <li>Basic features</li> <li>Fundamental duties of the Indian citizen as crucial values in strengthening the social fabric of Indian Society(tolerance, peace and communal harmony)</li> <li>The party system in Indian Politics</li> <li>Local self government in urban and rural areas</li> <li>Role of youth and women in politics</li> <li>B. Human Rights and sustainable development</li> <li>Concept of Human Rights ,origin and evolution of the concept</li> <li>The Universal Declaration of Human Rights</li> <li>Fundamental human rights in the Indian constitution</li> </ul>	15
III	Contemporary Social Concerns         • Substance abuse         • HIV/AIDS         • Problems of elderly         • Issues of Child Labour and child abuse         • Corruption         • Stress its causes and conflicts in society: stereotyping, prejudice, aggression and violence         • Conflict resolution and efforts towards building peace and harmony in society	15

#### **Suggested Readings**

[Note: This is not an exhaustive or prescriptive list; it is merely suggested reading]

#### Unit 1 (Human Rights, Consumer Rights, Public Interest)

Human Rights. Alfa Publications, New Delhi, 2006 Shivananda, J. Rajawat, M. Human Rights and Dalits. Anmol Publications, New Delhi, 2005 Kaushal. R. Women & Human Rights in India; Kaveri Books, New Delhi, 2000 Child Rights in India; Oxford University Press; New Delhi; 2003 Bajpai, A. Biju, M.R. Human Rights in a Developing Society; Mittal Publications, New Delhi, 2005 Prakash Kumar & Rai, K. B. Right to Know; Vikas Publishing House, NOIDA, 2008 Naib, Sudhir The Right to Information Act,2005: A Handbook; OUP, New Delhi; 2011 Sathe, S. P. Judicial Activism in India; OUP; New Delhi, 2002

#### Unit 2 (Ecology, Health, Education, Urban-Rural Issues)

Satpathy, N. Sustainable Development (An Alternative Paradigm); Karnavati Publications, Ahmedabad, Pachauri R.K & 1998

Srivastava L. (eds.)Global Partners for Sustainable Development; Tata Energy Research Institute, New Delhi; 1994

Shiva, Vandana Ecology and the Politics of Survival: Conflict over Natural Resources in India; Sage Publications, California, 1991

Pereira, W Inhuman Rights: The Western System and Global Human Rights Abuse; Apex Press; 1997 Pereira, W & Asking the Earth: Farms, Forestry and Survival in India; Earthscan Seabrook J Publications; 1991

Goel, S.L. Encyclopedia of Disaster Management, Vol. I, II & III; Deep and Deep Publications Pvt. Ltd., New Delhi; 2006

Parasuraman S. & Unnikrishnan P.V: India Disasters Report; Oxford University Press, New Delhi, 2000

Azim Premji The Social Context of Education in India; 2004. Foundation www.azimpremjifoundation.org/; Higher Education in India; UGC Report; 2003

Chaterjee, C Health and Human Rights; Vulnerable Groups in India, CEHAT, Mumbai & Sheoran, Gunjan May 2007

Datta, Prabhat The Great Indian Divide; Frontline; Volume 21 - Issue 14, Jul. 03 - 16, 2004 Kundu, Amitabh Rural Urban Economic Disparities in India: Database and Trends; December 2010; <u>http://www.indiapolicyforum.org/node/21</u>

#### Unit 3 (Effective Communications Skills)

Covey, Stephen 7 Habits of Highly Effective People; Free Press, 2004 Iyer, Prakash The Habit of Winning; Penguin, India; 2011 Goldratt, Eliyahu The Goal; The Northriver Press; 3rd Edition; 2004 Goldratt, Eliyahu It's Not Luck; The Northriver Press; 1994

Course Code	Title of the Course	Periods / week	Marks allotted	Credits for the Course
USHSP101	Food Science	3	50	2

To familiarize the students with:

- 1. Common ingredients, devices and equipments and their functionality available for food preparation.
- 2. Different cooking methods and techniques used while food preparation.
- 3. Principles involved in the preparation of different foods and their application
- 4. Concept of food quality.

Unit	Course Content		Periods
Ι	<ul> <li>Experimental Cookery</li> <li>Introduction to different terms, equipments and methods used in cookery</li> <li>Sugar cookery <ul> <li>Stages of sugar cookery</li> <li>Crystalline and Non-crystalline sugar candies</li> </ul> </li> <li>Role of fats in cookery</li> <li>Factors affecting fat absorption</li> </ul>	15	
II	<ul><li>Starch Cookery</li><li>Gluten formation</li><li>Effect of moist heat</li></ul>	15	
III	<ul> <li>Pectin Gel formation</li> <li>Jams, Jellies, Marmalades</li> <li>Cooking of Protein Foods</li> <li>Protein gelation, denaturation and coagulation</li> <li>Effect of heat, acid and enzymes on protein</li> <li>Role of egg in cookery</li> </ul>	15	

#### **References:**

Jamesen, K. (1998). Food Science laboratory manual New Jersey. Prentice Hall. Inc.

Mcwilliams, M. (1984). Experimental foods laboratory manual. New Delhi: Surjeet Publication.

- Mcwilliams, M. (1997). Foods experimental perspective. (3rd Ed.) New Jersey. Merill/Prentice Hall.
- Sethi, M and Rao, S.E. (2001). Food science experiments and applications. New Delhi. CBS Publishers and Distributors

Course Code	Title of the Course	Periods / week	Marks allotted	Credits for the Course
USHSP102	Pattern Making and Styling for Kidswear	3	50	2

- Objectives:
   To introduce basic styling and pattern drafting.
   To create interest in the subject by application of fundamentals of clothing.
   To introduce the basic techniques of clothing construction.

Unit	Course Content	Periods
Ι	Introduction:	15
	Pattern cutting tools	
	• Sewing equipment: its use and care	
	Fundamentals:	
	<ul> <li>Preparing woven fabrics for cutting: straightening and blocking of fabrics</li> </ul>	
	• Hand sewing techniques (Bastings/Slip stitch and Hemming)	
	• Seams (Plain, Run and fell, French, Lapped, Double sewn, Pinked)	
	• Fasteners (Press button, Button and buttonhole, Pant hook and bar, Velcro, Hook and eye)	
	• Piping, Bias Facing and Fitted Facing (Concave/Convex/Inner corner/Outer corner)	
	• Edge finishing (Groove and Edge, Edging with laces)	
	Basic Blocks and Sleeve based on Armstrong method	
II	Surface embellishment	15
	• Embroidery	
	• Fabric painting	
	• Stencil printing	
	Making of embellished accessory for example bag/pouch	
	Wardrobe Styling	
	Exploring types of garments in kids' wardrobe learning to coordinate	
	mix-n-match and style attire to create different looks by accessorizing	
	with suitable footwear/head-gears/scarves/ties/belts/bows/sashes/hair-	
	dos/jewelry, etc.	
	Dressing up for specific occasion for example	
	sports/picnics/casual/playwear as per kids body types and lifestyles	
III	Basic Clothing Concepts	15
	Introducing body measurements	
	• Reading design drawings and patterns with various yokes/	
	pleats/gathers/necklines/sleeves/garment openings.	
	Basic drawing and planning garment details	
	• Understanding and selecting fabrics	
	Adaptation of basic blocks to draft patterns for kidswear namely	
	Shirt, Shorts, Frock and Knickers	

#### The course includes:

- Planning and styling of garments with different garment details and adorning with different embellishing techniques (after having browsed through pattern books and Internet).
- Basic sketching for comprehending garment patterns.
- Flat pattern down-scaled for the journal sheets.
- Pattern constructions full scale.
- Journal as a compilation of drawings, patterns and swatches with colorful photographic presentations.
- Basic concepts of clothing to be incorporated in the garments or may be taught in the form of samples.
- Some instructional classes may be used as make-up periods and for conducting examinations as per predetermined schedules.

#### **References:**

Cunningham G. (1969). Singers Sewing Book, New York: Singer Co. Ltd.

Gardiner, W. (2003). Encyclopedia of Sewing Techniques, Kent: Search Presshold.

Jewel, R. (2000). *Encyclopedia of Dress Making*. (1<sup>st</sup> Ed.) New Delhi: A.P.H. Publishing Corporation.

McCall's. (1964). Sewing in Colour. London: The Hamlyn Publishing Group Ltd.

Reader's Digest (1993). Step by Step Guide: Sewing and Knitting, Auckland: Reader's Digest.

Zarapkar, T. (1981). Zarapkar System of Cutting, Mumbai: Zarapkar Tailoring College.

Buckley, C. and McAssey J., (2011). Basic Fashion Design 08 styling, Bloomsbury: London.

Marian L Davis, (1996). Visual Design and Dress, Third Edition, Prentice Hall: New Jersey.

- Suzanne G Marshall, Hazel O Jackson (2000). *Individuality in Clothing and Personal Appearance*, Prentice Hall, New Jersey.
- Caroline Tatham and Julian Seaman, (2003). *Fashion Designing and Drawing Course*, London: Thames and Hudson Publishers.
- Harold Carr, (1992). Fashion Design and Product Development, John Wiley and Son Inc.: NewYork.

Course Code	Title of the Course	Periods / week	Marks allotted	Credits for the Course
USHSP103	Aesthetics in Interiors	2	50	2

- 1. To help learn the relationships that characterizes art and design practice.
- 2. To enable students to explore theories and apply principles of aesthetics and art criticism to theorize your own artwork.
- 3. To encourage experimentation with traditional and contemporary materials, technical processes and methods.
- 4. To impart knowledge and skills for aesthetic appreciation and evaluation.

Unit	Course Content	Periods
Ι	<ul> <li>Concept of Colour:</li> <li>a. Dimensions of colours</li> <li>b. Colour systems :Prang and Itten's Star</li> <li>c. Planning Colour Harmonies : Related and Complimentary</li> <li>d. Application of Colour Harmonies in Interior and Exterior design</li> </ul>	10
Π	<ul> <li>Presentation techniques <ul> <li>a. Material, Media &amp; tools: Water Colours, Pen, Ink, Charcoal, Pencil, Brushes.</li> <li>b. Effect of lines to represent textures.</li> <li>c. Rendering with Pen &amp; Ink.</li> <li>d. Rendering of various materials: signs and symbols</li> </ul> </li> </ul>	10
III	<ul> <li>Drafting and Presentation of Drawings <ul> <li>a. Drafting tools &amp; medium</li> <li>b. Lines</li> <li>c. Lettering</li> <li>d. Dimensions</li> <li>e. Drafting a single room - Plan and Elevation</li> <li>f. Understanding Architectural Drawings</li> </ul> </li> </ul>	10

#### **References:**

Craig. H. T. (1987). Homes with Character. Glencoe Publishing Co. Inc. U.S.A.

- Damhorst. M. L., Miller. K. A. & Michelman. S. O. (2001). The meaning of Dress. Fairchild Publishing . New York.
- Diane. T. & Cassidy T. (2005). Colour Forecasting. Blackwell Publishing Co. Great Britain.
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COURSE CODE	COURSE TYPE	TITLE OF THE COURSE	WORKLOAD		VORKLOAD NO. OF CREDITS	
			L	Р	Т	Р
USHS201	Core Couse	Basic Nutrition	3	-	3	-
USHS202	Core Couse	Adolescent Development	3	-	3	-
USHS203	Core Couse	Psychology of Clothing	3	-	3	-
USHS204	Core Couse	Introduction to Tourism and Hospitality Industry	3	-	3	-
USHS205	Foundation Course - Ability Enhancement Course 2	Environment & Sustainable Development	3	-	2	-
USHSP201	Core Course Practical	Introductory Food Analysis and Biochemistry	-	3	-	2
USHSP202	Core Course Practical	Pattern Making, Garment Construction and Styling for Kidswear	-	3	-	2
USHSP203	Core Course Practical	Skills for the Hospitality Industry	-	2	-	2
					14	6

#### SEMESTER II

Course Code	Title of the Course	Lectures / week	Marks allotted	Credits for the Course
USHS201	<b>Basic Nutrition</b>	3	100	3

- 1. To enable students to understand the relation of nutrition to health.
- 2. To enable students to understand functions, sources, requirements and effects of deficiency of macronutrients.
- 3. To enable students to understand digestion, absorption and metabolism of Macronutrients.

Unit	Course Content	Lectures
I	<ul> <li>Introductory Nutrition:</li> <li>Important terminologies and concepts in Nutrition such as: <ul> <li>Balanced diet,</li> <li>Food guide pyramids,</li> <li>Food plate concept,</li> <li>Macro &amp; micro nutrients,</li> <li>Malnutrition</li> </ul> </li> <li>Energy: <ul> <li>Forms of Energy</li> <li>Energy expenditure</li> <li>Components of energy expenditure – BMR, TEF and Physical activity</li> <li>Factors influencing &amp; Requirements of energy expenditure</li> <li>Requirements of energy</li> </ul> </li> </ul>	15
II	<ul> <li>Functions, classification, sources, basic structures, tests for identification, metabolism and RDA</li> <li>Macronutrients: <ul> <li>Carbohydrates</li> <li>Lipids</li> <li>Proteins</li> </ul> </li> </ul>	15
III	<ul> <li>Functions, classification, sources, basic structures, tests for identification, metabolism and RDA</li> <li>Micronutrients: <ul> <li>Vitamins –Fat soluble and water soluble vitamins</li> <li>Minerals – Macro, Micro &amp; Trace Minerals</li> </ul> </li> <li>Water <ul> <li>Functions &amp; Imbalances</li> </ul> </li> </ul>	15

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Guthrie, H., (1986), Introductory Nutrition, 6th edition Times Mirror/Mosby college Publication.

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Course	Title of the Course	Lectures /	Marks	Credits for
Code		week	allotted	the Course
USHS202	Adolescent Development	3	100	3

- 1. To introduce students to the scientific study of adolescence.
- 2. To help students learn about key areas of adolescent development: puberty, health, cognitive and moral development, self, identity, emotions, gender, personality, and sexuality.
- 3. To have students understand the contexts which influence adolescent development: family/parents/siblings, peers/friends, school, and culture.
- To sensitize students to the common challenges during adolescence. 4. To acquaint students with the various ways in which one can create well-being in 5.
  - adolescence.

Unit	Course Content	Lectures
Unit	<ul> <li>Course Content</li> <li>Introduction, History, and Biological Development         <ul> <li>(a) Historical perspective of the study of adolescence: adolescence as a new stage in human development, stereotyping of adolescents, positive youth development theory</li> <li>(b) Importance of studying adolescents; status of adolescents in the world and in India</li> <li>(c) Puberty: determinants, growth spurt, sexual maturation, secular trends in puberty, pubertal timings and health care, psychological dimensions</li> <li>(d) Adolescent health as a critical juncture: nutrition, exercise and sports, sleep, leading causes of death</li> </ul> </li> <li>Cognitive and Moral Development         <ul> <li>(a) Experience-dependent plasticity of the brain in adolescence.</li> <li>(b) The cognitive development view: Piaget's and Vygotsky's theories and extensions</li> <li>(c) The information processing view; characteristics of the information-processing view, attention, memory, executive functioning (decision-making, reasoning, critical thinking, creative thinking)</li> <li>(d) Moral development: Piaget, Kohlberg, Gilligan and extensions</li> </ul> </li> </ul>	Lectures 15
II	Religion and spirituality         Self, Identity, and Emotions         (a) Self: what is the self, multidimensionality, self-concept vs. self- esteem, theories (James, Cooley, Harter), characteristics of an adolescent's self         (b) Identity: Erikson's identity vs. role diffusion, psychosocial moratorium, identity crisis, Marcia's four statuses of identity, current perspective on identity development         (c) Emotions: definition, relationship with self-esteem, adolescence as a period of storm and stress, hormones and emotions, social aspects and emotions, emotional competence         Personality, Gender, and Sexuality         (a) Personality: different conceptions of personality, the Big Five	15

model of personality, person vs. situation as determinants of	
behavior	
(b) Gender : femininity, masculinity, gender classifications, androgyny	
as a healthy option, role of culture in gender development, sex vs.	
gender, gender differences (activities and interests, personal-social	
attributes, social relationships, styles and symbols)	
(c) Sexuality: sex vs. sexuality, importance of sexuality in adolescence,	
challenges related to sexuality	
III Contexts of Adolescent Development	15
(a) Reciprocal socialization and the family as a system.	
(b) Parents: developmental changes in parents and adolescents,	
changing parent-adolescent relationships, parents as managers,	
parenting styles, parent-adolescent conflict, autonomy and	
attachment	
(c) Siblings: sibling roles	
(d) Peer relations: peer group functions, family-peer linkages, peer	
conformity, peer statuses, friendship, dating and romantic	
relationships	
(e) Schools; adolescence as a critical juncture in achievement;	
technology	
(f) Role of culture; youth in poverty	
Challenges, Problems and Wellbeing in Adolescence	
(a) Teen suicide: statistics, common situations in which adolescents	
commit suicide, symptoms of depression, prevention and	
intervention (b) A so dominant for the statistics ( $n = f$ ) is a finite statistic statistic ( $n = f$ ).	
(b) Academic stress: statistics/profile of adolescents in India related to	
academic stress, reasons, strategies for coping	
(c) Bullying, ragging, aggression/violence, and juvenile delinquency:	
statistics/profile of adolescents in India, prevention and intervention	
(d) Substance abuse: smoking, alcohol and drugs; influence of peers;	
prevention and intervention	
(e) Strategies for creating well-being in adolescence	

Dolgin, K. G. (2010). The adolescent: Development, relationships, and culture (13<sup>th</sup> ed.). NY: Pearson.

Garrod, A., Smulyan, L., & Powers, S. I. (2011). Adolescent protraits: Identity, relationships, and challenges (7<sup>th</sup> ed.). NY: Pearson.
Santrock, J. W. (2013). Adolescence (15<sup>th</sup> ed.). NY: McGraw-Hill.

Course     Title of the Course       Code		Lectures	Marks	Credits for
		/ week	allotted	the Course
USHS203	Psychology of Clothing	3	100	3

- 1. To understand the psychology of clothing.
- 2. To give an insight into the relationship between clothing, fashion and body types.
- 3. To understand the various factors affecting clothing behavior in relation to personality and roles.

Unit	Course Content	Lectures
Ι	Origin and Theories of Dress and Adornment	15
	• Early Interest / Use	
	• Purpose for Dress – Modesty, Adornment, Protection and Utility	
	Clothing and Physical Self:	
	Body Image and Social Ideals	
	Bodily Traits and Social Influences	
	Physical Attractiveness	
	<ul> <li>Physical Disabilities and Appropriate Clothing</li> </ul>	
	• Selection of fabrics for various age groups and end uses with self –	
	help features	
II	Clothing, Socialization and Concept of Self	15
	Stages in Self-concept formation	
	Social feedback	
	Self-comparison / perception / esteem	
	<ul> <li>Clothing in groups and organizations</li> </ul>	
	Social constraints in clothing	
	Clothing society and self	
	<ul> <li>Socio-cultural variations in clothing</li> </ul>	
	Impact of mass media on clothing	
III	Clothing, Fashion, Personality and Roles	15
	Symbolic interactive theory	
	• Role theory	
	Role acquisition / conflict / embracement	
	Dramaturgy	
	Clothing and personality	
	Fashion Theory Process	
	Recent developments	

#### **References:**

Kaiser S. B. (1985). The Social Psychology of Clothing. New York: MacMillan

Course	Title of the Course	Lectures	Marks	Credits for
Code		/ week	allotted	the Course
USHS204	Introduction to Tourism and Hospitality Industry	3	100	3

- 1. To enable students to understand the meaning, concept, origin and development of the hospitality industry.
- To provide technical, analytical and conceptual skills appropriate for the hospitality industry.
   To develop young women into professional experts, to manage hospitality industry in general and hotels in particular.

Unit	Course Content	Lectures		
I	<ul> <li>Overview of the Tourism and Hospitality Industry         History:         <ul> <li>a. Travel :International / Domestic</li> <li>b. History of Hotels and Motels</li> <li>c. History of Travel Agency &amp; Tour Operations</li> <li>d. Origin of Food Service Industry</li> <li>e. Growth of Air Travel</li> </ul> </li> <li>Careers in the Industry         <ul> <li>a. Career paths and career goals</li> <li>b. Professionalism and etiquette</li> <li>c. Social responsibility in the business</li> <li>d. Careers in Travel and Tourism; Managed services, Restaurants and Lodging, Club management, MICE, Recreation, Leisure, Amusement, Theme parks etc</li> </ul> </li> <li>Customer Service         <ul> <li>a. Definition and Importance</li> <li>b. Types of customers: External and Internal</li> <li>c. Customer services : before, during and after sale</li> <li>e. Challenges encountered in providing service</li> <li>f. Customer Service and Technology</li> </ul> </li> </ul>			
II	The Hotel Industry         Introduction         a. Definition         b. Categorizations of Hotels         c. Hotel brands in India         Organization of the Hotel         a. Organizational Structure of Hotel : Small and Large Hotel         b. Departments /Divisions in Hotel         i. Revenue and Non - revenue departments         ii. Front office and Back office departments         Hotel Guestrooms         Types of guests:         Types of Food service facilities: Commercial and Institutional food facilities	15		

	Future trends in Hospitality	
III	The Tourism Industry	15
	Introduction and Role of Tourism	
	Factors Influencing growth of Tourism	
	a. Religion and Spirituality	
	b. Leisure	
	c. Sight seeing	
	d. Culture	
	e. Adventure	
	f. Other Tourism Activities	
	Tour Operators and Travel Agents	
	a. Role of Travel Agent and Tour Operators	
	b. E- Trade	
	c. Web – Marketing	
	Tourist Organizations: Indian and International organizations	
	Future Tourism Trends	

Agarwal. A. and Agarwal. M. (2000). Careers in Hotel Management. Vision Books Pvt. Ltd, New Delhi.

- Alan. T. S. andWortman. J. F. (2006). Hotel and Lodging Management An Introduction. John Wiley and Sons.
- New Jersey.
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- Branson J. and Lennox M. (1992). Hotel, Hostel and Hospital Housekeeping. Hodderand Stoughton Educational
- Press, Great Britain.

Brown G. and Hepner. K. (1996). The Waiter's Handbook. Hospitality Press Pty Ltd, Australia Casado. M. A. (2000). Housekeeping Management. John Wiley. New York.

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- O' Shannessy. V and Haby. S. Richmond (2001). Accommodation Services. Prentice Hall, Australia
- Raghubalan. G. and Raghubalan. S. (2007). Hotel Housekeeping Operations and Management. Oxford University

Press. New Delhi

Walker. J. R. (2005). Introduction to Hospitality Management. Pearson Education Pvt. Ltd, Delhi.

Course	Title of the Course	Lectures	Marks	Credits for
Code		/ week	allotted	the Course
USHS205	Environment and Sustainable Development	3	100	2

- 1. To provide an insight into recent ecological and environmental issues and concerns.
- 2. To create sensitivity and consideration towards ethics, conservation ad sustainable development for environmental problems.
- 3. To give an exposure into legal aspects and environmental laws at the National and Global level.

Unit	Course Content	Lectures
Ι	<ul> <li>ECOSYSTEMS, BIODIVERSITY , RESOURCES AND ETHICS.</li> <li>Definition and scope of Environmental Science.</li> <li>Natural Ecosystems : Global, national and local issues</li> <li>Biodiversity :Concepts and global, national and local concerns</li> <li>Resources-Natural and Manmade</li> <li>Energy-renewable and non-renewable</li> <li>Land- Food production ,weather and climate, Soil erosion and desertification, Agricultural practices and its effects on land</li> <li>Sustainable methods for resource conservation</li> <li>Environmental ethics-Concept of intrinsic and extrinsic value of human and non human life</li> </ul>	15
II	<ul> <li>Ecospirituality.</li> <li>POLLUTION AND ITS IMPACT ON THE ENVIRONMENT         Each subtopic will be discussed with regards the following:         Sources of pollution, Effects on environment and human health,         methods of eliminating effects of pollution ,controlling and         preventing pollution             Air Pollution             Water Pollution             Thermal and Radiation Pollution             Noise Pollution             E-waste</li></ul>	15
III	<ul> <li>NATURAL RESOURCES, CONSERVATION AND SUSTAINABLE DEVELOPMENT <ul> <li>Natural disasters due to ecological damage and environmental degradation.(2 recent case studies can be discussed)</li> <li>Legal provisions and laws empowering sustainable development.(National and Global)</li> <li>Sustainable methods of waste management</li> <li>Sustainable methods for resource conservation</li> <li>Solid waste management</li> <li>Effluent treatment</li> <li>E waste management</li> <li>Principles of conservation : Reduce, Reuse and Recycle</li> </ul> </li> </ul>	15

٠	Recent trends, initiatives and outcomes in recycling and
	conservation of biodiversity and resources(Global and
	National)

- Bharucha E.Textbook of Environmental Studies for Undergraduate Courses.Naabhi Publications, 2013.
- Bellamy j., Clark B. AND York R. The Ecological Rift. Monthly Review Press, 2011.
- Boubel R., Fox D. Fundamentals of Air Pollution .Naabhi Publications, 2005.
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- Ernst F. Schumacher E. Small Is Beautiful: Economics as if People Mattered. Harper Perennial, 1989
- MacKay D. Sustainable Energy Without the Hot Air. W. W. Norton & Company ,1999.
- McDonough W. Braungart. Cradle to Cradle: Remaking the Way We Make Things. North Point Press,2002
- P.Panday, Bhola Mahato, R.K. Singh, L.B. Singh and B.N. Pandey, A Text Book of Environmental Pollution. Narendra Pub, 2010

Course	Title of the Course		Periods /	Marks	Credits for		
Code			week	allotted	the Course		
USHSP201	Introductory Biochemistry	Food	Analysis	&	3	50	2

To familiarize the students with

- 1. Basic techniques of food analysis.
- 2. Techniques of identifying food adulteration.
- 3. Concept of food quality.

Unit	Course Content	Periods
Ι	<ul> <li>Introductory Food Analysis <ul> <li>Standardization of acids and alkalies</li> </ul> </li> <li>Proteins: <ul> <li>Colour reactions of Amino acids-Biuret Method, Ninhydrin test, Xanthoproteic test, etc.</li> <li>Precipitatory reactions of proteins</li> </ul> </li> </ul>	15
II	<ul> <li>Carbohydrates: Qualitative analysis</li> <li>Benedicts's test, Molisch test, Iodine test, etc.</li> <li>Quantitative analysis - Cole's Method, Benedicts quantitative test.</li> <li>Analysis of dietary fibre</li> </ul>	15
Ш	<ul> <li>Lipids <ul> <li>Qualitative tests for lipids</li> <li>Determination of Acid value</li> </ul> </li> <li>Vitamins <ul> <li>Estimation of Vitamin C- DCIP method</li> </ul> </li> <li>Pigments <ul> <li>Effect of heat, acid &amp; alkali on vegetable &amp; fruit pigments (Chlorophyll, carotenoids &amp; anthocyanins)</li> </ul> </li> </ul>	15

#### **References:**

Jamesen, K. (1998). Food science laboratory manual New Jersey. Prentice Hall. Mcwilliams, M. (1984). Experimental foods laboratory manual. New Delhi: Surjeet Publication.

Course Code	Title of the Course	Periods / week	Marks allotted	Credits for the Course
USHSP202	Pattern Making, Garment Construction and Styling for Kidswear	3	50	2

- 1. To apply the basics of styling and garment construction techniques.
- 2. To plan and stitch garments that are aesthetically and functionally designed for kids.
- 3. To apply the basic techniques of clothing construction in garment making.

Unit	Course Content	Periods
I	Apron Wardrobe Styling Exploring types of garments in kids' wardrobe learning to coordinate mix- n-match and style attire to create different looks by accessorizing with suitable footwear/head-gears/scarves/ties/belts/bows/sashes/hair- dos/jewelry, etc. Dressing up for specific occasion for example formal/birthday party/traditional occasions as per kids body types and lifestyles	15
Ш	Girls: A-line Frock Knickers	15
III	Boys: Shirt Shorts	15

The course includes:

- Planning and styling of garments with different garment details and adorning with different embellishing techniques (after having browsed through pattern books and Internet).
- Sourcing and selecting suitable fabrics (preferably cotton) and other trimmings and findings.
- Folding of fabrics, placement of drafts considering fabric consumption and minimum wastage, pinning, cutting and marking methods
- Stitching of the planned garments using suitable seams, neckline, armhole and edge finishes.
- Journal as a compilation of drawings, patterns and swatches with colorful photographic presentations.
- Some instructional classes may be used as make-up periods and for conducting examinations as per predetermined schedules.

#### **References:**

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McCall's. (1964). Sewing in Colour. London: The Hamlyn Publishing Group Ltd.

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Buckley, C. and McAssey J., (2011). Basic Fashion Design 08 styling, Bloomsbury: London.

Marian L Davis, (1996). Visual Design and Dress, Third Edition, Prentice Hall: New Jersey.

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- Caroline Tatham and Julian Seaman, (2003). *Fashion Designing and Drawing Course*, London: Thames and Hudson Publishers.
- Harold Carr, (1992). Fashion Design and Product Development, John Wiley and Son Inc.: NewYork.

Course Code	Title of the Course	Periods / week	Marks allotted	Credits for the Course
USHSP203	Skills for the Hospitality Industry	2	50	2

- To inculcate professional competence and confidence among the students.
   To provide students with basic technical and practical skills appropriate for the hospitality industry

Unit	Course Content	Periods
Ι	Illustrating the Organizational structure of	10
	a. Large hotel	
	b. Small hotel	
	Categorization of hotels according to	
	a. Size	
	b. Star rating	
	c. Location	
	d. Clientele / Guests	
	Ownership / Affiliation	
	Hotel departments- classification and introduction to	
	a. Front Office	
	b. House keeping	
	c. Food & Beverages	
	d. Food & Beverage service equipment – Laying of a table, laying	
	of a cover	
II	Hotel Guest rooms	10
	a. Types	
	b. Sample layouts	
	c. Supplies and Amenities	
	Hotel Brochures and pricing:	
	a. Room rates	
	b. Pricing	
	c. Marketing through advertisements - Sales promotion materials	
	for hospitality and tourism promotion	
III	Tourism product of Maharashtra	10
	a. Cultural Heritage	
	b. World Heritage monuments	
	c. Adventure tourism	
	d. Hill Resorts	
	e. Beaches	
	f. Tourism festivals	
	g. Pilgrimage Centre's	
	h. Arts and Crafts	
	i. Performing Arts	
	Tourist Transport – An Overview	
	a. Air travel	

b.	Surface transport
с.	Rail transport
	i. Major railway of world - British railway, Euro rail,
	Japanese rail, Amtrak Onent Express, Tibetan Rail
	ii. Indian railways
d.	Water transport
	i. Cruise ship
	ii. Ferries
	iii. Hovercrafts & Boats

Agarwal A. and Agarwal M, (2000). Careers in Hotel Management. Vision Books Pvt Ltd, New Delhi

Andrews, S. (1982). Hotel Front Office – Training Manual. Tata McGraw Hill Publishing Co. Ltd., New Delhi.

Andrews S. (2003). Hotel Housekeeping – Training Manual. Tata McGraw Hill Publishing Co. Ltd., New Delhi.

Brown G.andHepner, K.. The Waiter's Handbook. Hospitality Press Pty Ltd, Australia

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Lockwood A. (1996). Quality Management in Hospitality: Best Practice in Action. Cassell Publishing House,

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#### Scheme of Examination

#### F.Y.B.Sc. (Home Science) 2016-17 onwards

#### <u>Question Paper Pattern for Semester End Theory Examination of</u> <u>100 marks for three unit course</u>

- 1) Duration 3 hours for 100 marks paper
- 2) There shall be four questions
- 3) There will be one question on each unit and fourth question will be based on the entire syllabus.
- 4) All Questions will be of 25 marks each (40 marks with internal options)
- 5) All questions shall be compulsory with internal choice within the questions.
- 6) Questions may be sub divided into sub questions as a, b, c, d & e etc. and the allocation of marks depends on the weightage of the topic.
- 7) No sub question shall exceed  $12\frac{1}{2}$  marks.

All **Practical** courses out of 50 marks with no internal assessment for all levels of undergraduate courses.

The learners to pass a course shall have to obtain a minimum of 40% marks for each course.

### Note – It is noted that the same be implemented to Semester I and Semester II from the academic year 2016 – 2017.

Semester III to VI will follow the scheme of examination of 2015-16.