

Savitribai Phule Pune University, Pune

(Formerly University of Pune)



Second Year B.Sc. Program in Food Science and Nutrition

(Faculty of Science & Technology

S.Y. B.Sc.(Home Science)

To be implemented from Academic Year 2025- 2026

SY B.Sc. Sem-III (Food Science and Nutrition)

Course code	Course Type	Course Name	Teaching Scheme Hrs/Week		Examination Scheme and Marks			Credits		
			TH	PR	CE	EE	Total	TH	PR	Total
FSN- 201 -MJT	Major	Nutrition for the Family	02	--	15	35	50	02	--	02
FSN -202- MJT		Therapeutic Nutrition	02		15	35	50	02		02
FSN -203- MJP		Practical I		04	15	35	50		02	02
FSN-221-VSC	VSC	Bakery and Confectionary		04	15	35	50	02	-	02
FSN-231-FP	FP/OJ T/CEP	Field Project	02		15	35	50	02	-	02
HSC-241-MNT	Minor	Family Dynamics Group (A)	02	04	15	35	50	02	-	02
HSC-242-MNP		Family Dynamics			35	50	02		02	
HSC-243-MNT HSC-244-MNP		Consumer Education Group (B) Consumer Education choose any 1	02	04	15 15	35 35	50 50	02 02	-	02 02
HSC-201-OE-T	GE/OE	Marriage and Family Studies	--	04	15	35	50	--	02	02
FSN-201-IKS	IKS	Traditional Indian Foods	02	--	15	35	50	02	--	02
	AEC	Course from University basket	02	--	15	35	50	02	--	02
	CC	Course from University	02	--	15	35	50	02	--	02
		Total			165	385	550	14	08	22

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SY B.Sc. Sem-IV (Food Science and Nutrition)

Course code	Course Type	Course Name	Teaching Scheme Hrs/Week		Examination Scheme and Marks			Credits		
			TH	PR	CE	EE	Total	TH	PR	Total
FSN- 251- MJT	Major	Food Preservation	02		15	35	50	02		02
FSN- 252 -MJT		Food Microbiology	02		15	35	50	02		02
FSN- 253- MJP		Practical II		04	15	35	50		02	02
FSN-271- VSC-P	VSC	Millet Processing		04	15	35	50	02	-	02
FSN-281- CEP	FP/OJ T/CEP	CEP		04	15	35	50	02	--	02
HSC-291-MNT	Minor	Event Management Group (A)	02		15	35	50	02	--	02
HSC-292-MNP		Event Management		04	15	35	50	02		02
HSC-293-MNT		Early Childhood Care and Education Group (B)	02		15	35	50	02	--	02
HSC-294-MNP		Early Childhood Care and Education Choose any 1		04	15	35	50	02		02
HSC-251-OE-P	GE/OE	Marriage and Family Studies	--	04	15	35	50	--	02	02
SEC-251-HSC	SEC	Teaching aid in Home Science Extension Education	02	--	15	35	50	02	--	02
	AEC	Course from University basket	02	--	15	35	50	02	--	02
	CC	Course from University basket	02	--	15	35	50	02	--	02
		Total			165	385	550	14	08	22

SY B.Sc. Sem-III(Textile and Clothing)

Course code	Course Type	Course name	Teaching Scheme Hrs/Week		Examination Scheme and Marks			Credits		
			TH	PR	CE	EE	Total	TH	PR	Total
TC- 203 -MJT	Major	Clothing Management	02	--	15	35	50	02	--	02
TC-204- MJP	Major	Home Textiles and Care	02		15	35	50	02		02
TC-205- MJP	Major	Practical I		04	15	35	50	--	02	02
TC-222-VSC	VSC	Traditional Embroideries of India I		04	15	35	50	02	-	02
TC-231-FP	FP/OJT/CEP	Field Project	02	00	15	35	50	02	-	02
HSC-241-MNT	Minor	Family Dynamics Group (A)	02	00	15	35	50	02	-	02
HSC-242-MNP		Family Dynamics		04	15	35	50		02	02
HSC-243-MNT	Minor	Consumer Education Group (B)	02		15	35	50	02	-	02
HSC-244-MNP		Consumer Education Choose any 1		04	15	35	50	02		02
OE-201-HSC	GE/OE	Marriage and Family Studies	--	04	15	35	50	--	02	02
TC-201-IKS	IKS	History of Fashion	02	--	15	35	50	02	--	02
	AEC	Course from University basket	02	--	15	35	50	02	--	02
	CC	Course from University basket	02	--	15	35	50	02	--	02
		Total			165	385	550	14	08	22

SY B.Sc. Sem-IV (Textile and Clothing)

Course code	Course Type	Course name	Teaching Scheme Hrs/Week		Examination Scheme and Marks			Credits		
			TH	Pr	CE	EE	Total	TH	PR	Total
TC- 251 -MJT	Major	Textile Chemistry	02	--	30	70	50	02	--	02
TC- 252 MJT		Wet Processing	02	--	15	35	50	--	02	02
TC- 252 MJP		Practical II	--	04	15	35	50	--	02	02
TC-271-VSC	VSC	Traditional Embroideries of India II	--	04	15	35	50	02	-	02
TC-281-CEP	FP/OJT/CEP	CEP	02	--	15	35	50	02	--	02
HSC-291-MNT HSC-292-MNT	Minor	Early Childhood care and Education Group (A)	02		15	35	50	02	--	02
		Early Childhood care and Education		04	15	35	50	02		02
HSC-293-MNT HSC-294-MNP	Minor	Event Management Group (B)	02		15	35	50	02	--	02
		Event Management Choose any 1		04	15	35	50	02		02
HSC- 251- OE-P	GE/OE	Marriage and Family Studies	--	04	15	35	50	--	02	02
HSC-251-SEC	SEC	Teaching aids in Extension	00	04	15	35	50		02	02
	AEC	Course from University basket	02	00	15	35	50	02	00	02
	CC	Course from University basket	02	00	15	35	50	02	00	02
		Total			165	385	550	14	08	22

Introduction to Undergraduate Degree Course in Home Science:

As per the recommendations of UGC-F-2022, the undergraduate (UG) degree course in Home Science is a 6-semester course spread over 3-academic years. The Teaching Learning Process (TLP) is students' centric. It involves both theory and practical components. It offers a flexibility of program structure while ensuring that the student gets a strong foundation in the subject and gains in depth knowledge. Besides the DSCs (Major Core), a student has options courses from the syllabus comprising of DSEs (Minor), GEs, SECs, IKSs and VSCs. Hence, this will bring out the interdisciplinary as well as multidisciplinary approach and adherence to innovative ways within the curriculum framework. It also allows a student's maximum flexibility in pursuing her studies at the undergraduate (UG) level to the extent of having the liberty to eventually design the degree with multiple exit options. Students have these exit options depending upon the needs and aspirations of the student in terms of her goals of life, without compromising on the teaching learning, both in qualitative and quantitative terms. This will suit the present day needs of students in terms of securing their paths towards higher studies or employment.

SEMESTER-III

FSN-201-MJT- NUTRITION FOR THE FAMILY

Course Objectives:

1. The course will enable the students to: .To introduce the basic concepts of meal planning
2. To equip the knowledge of physiological changes, nutritional requirements and balanced diet
3. To relate the Principles of planning with specific nutrient requirements of various age groups
4. To incorporate healthy food choices during the life cycle

UNITS	CONTENTS	LECTURES
I	Menu Planning Explanation of Terms Health, Balanced Diet, Nutrient Requirement, DRI, RDA, Phytochemical, Nutraceutical Functional Foods Food group(ICMR) Food Guide General Guideline Suggested by ICMR Food Exchange List Planning a Balanced diet Principals of planning diet Steps Involve in Planning a Diet Nutritional Recommendations and Food Requirement of Adults 1)Indian reference man, reference woman 2)Classification of adults based on Occupation 3)Nutritional recommendation 4)Food Requirements 5)Dietary guidelines 6)Dietary guidelines to reduce cost of meals 7)Vegetarian diet, vegan Diet	07

II	<p>Nutritional Recommendations and Food Requirement of Expectant Mothers Lactating Women</p> <ol style="list-style-type: none"> 1)Physiological Changes 2)Nutritional Recommendations 3)Food Requirement Dietary guidelines 4)General dietary problems- 5)Complication during Pregnancy <p>Nutritional Recommendations and Food Requirement of Expectant Mothers Lactating Women</p> <p>Nutritional Recommendations and Food Requirement of Infants</p> <ol style="list-style-type: none"> 1)Growth and Development during Infancy 2)Nutritional recommendation 3)Food Requirements-Breast Feeding Infant Milk Substitute 4)Breast milk bank 5)Artificial feeding 6)Low birth Weight Baby 7)Preterm baby 8)Weaning 9)Types of supplementary foods 10)Problems in weaning 	08
III	<p>Nutritional Recommendations and Food Requirement of Preschooler and School Going Children</p> <ol style="list-style-type: none"> 1)Nutritional Recommendations 2) Food Requirements, Dietary guidelines 3)Feeding Problems- Dental Decay, pica 4)Feeding Disorder-Picky eating 5)Nutritional related problems of Preschooler- and Schooler <p>Importance of Breakfast</p> <ol style="list-style-type: none"> 1)Packed Lunches 2)Points to be Considered in planning a pack lunch 	07
	<p>Nutritional Recommendations and Food Requirement of Adolescents</p> <ol style="list-style-type: none"> 1)Nutritional Recommendations 2) Food Requirements, Dietary guidelines <p>Nutritional Problems</p>	08

IV	Obesity, Eating disorder Anorexia Nervosa Bulimia Nervosa Anemia, Nutritional Recommendations and Food Requirement of Elderly 1)Process of aging 2)Nutritional Recommendations 3)Food Requirements, Dietary guidelines 4) Dietary guidelines 5)Nutritional related problems of Old age Sarcopenia, Osteoporosis Obesity, Anemia, Constipation Dehydration	
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References:

1. Mudambi, S. R. and Rajagopal, M. V. (2003) Fundamentals of Foods and Nutrition, 4th Edition, New Age International (P) Limited Publishers, New Delhi, India.
2. Mudambi, S. R., Rajagopal, M. V. and Rao, S. (2008) Food Science, 2nd Edition, New Age International (P) Limited Publishers, New Delhi, India
3. Srilakshmi, B. (2024) Food Science, 9th Edition, New Age International (P) Limited Publishers, New Delhi, India.
4. Guthrie, H. (1986) Introductory Nutrition, Times Mirror College Publication, Toronto, Canada
5. Gopalan, C., Ramasastri, B. V. and Balasubramaniam, S. C. (1999) Nutritive Value of Indian Foods, NIN,ICMR, Hyderabad, India
6. Gibney J.M. Macdonald A.I and Roche M.H.2003. Nutrition and Metabolism. Blackwell Publishing International Child Health: A Digest of Current Information
7. International Food Policy Research Institute (1997). Care and Nutrition: Concepts and Measurement. International Food Policy Research Institute Washington DC., USA
8. King, F.S. (1992). Helping Mothers to Breastfeed. Association for Consumers Action on Safety and Health, Mumbai
9. Luke, B. Johnson, T.R.B.; Petrie, R.H. (1993). Clinical Maternal-Fetal Nutrition. Little Brown and Co, Boston
10. Whitney, E. N.and Rolfes, S. R. (1996) Understanding Nutrition, 7th Edition, West publishing Company, St. Paul, U.S.A.
11. Wardlaw, G. M. (2006) Perspectives in Nutrition, 7th Edition, McGraw Hill Inc, Europ

FSN-202-MJT- THERAPEUTIC NUTRITION

Course Objectives:

1. Understand the etiological factors and physiological changes associated with specific disease conditions.
2. Develop an insight into the role of modified diets in specific conditions.
3. Acquire the ability to modify the normal diet to suit individuals suffering from specific diseases and lifestyle disorders

UNITS	CONTENT	LECTURES
I	Therapeutic Diet and Introduction to Diet Therapy 1)Routine Hospital Diet Special feeding Methods 2)Types of Foods, Parenteral Nutrition Total Parenteral Nutrition 3)Glycemic Index, Prebiotic and Probiotics Artificial Sweeteners	08
II	Nutritional Anemia in Physiological and Pathological Condition Prevalence, causes Types, Prevention Iron deficiency Anemia, Megaloblastic anemia Pernicious anemia Haemolytic Anemia	07
III	Diet in underweight and Obesity Obesity Aetiology, Role of hormone. Assessment, Types Treatment, Complications prevention Underweight Aetiology Nutritional and Food Requirement	08
IV	Diet in Diabetes Mellitus prevalence, Types, Aetiology, Symptoms Diagnosis Treatment and Complication of Diabetes	07

References:

1. Mudambi, S. R. and Rajagopal, M. V. (2003) Fundamentals of Foods and Nutrition, 4th Edition, New Age International (P) Limited Publishers, New Delhi, India.
2. Mudambi, S. R., Rajagopal, M. V. and Rao, S. (2008) Food Science, 2nd Edition, New Age International (P) Limited Publishers, New Delhi, India
3. Srilakshmi, B. (2024) Food Science, 9th Edition, New Age International (P) Limited Publishers, New Delhi, India.
4. Guthrie, H. (1986) Introductory Nutrition, Times Mirror College Publication, Toronto, Canada
5. Gopalan, C., Ramasastri, B. V. and Balasubramaniam, S. C. (1999) Nutritive Value of Indian Foods, NIN,ICMR, Hyderabad, India
6. Gibney J.M. Macdonald A.I and Roche M.H.2003. Nutrition and Metabolism. Blackwell Publishing.
7. International Child Health: A Digest of Current Information
8. International Food Policy Research Institute (1997). Care and Nutrition: Concepts and Measurement. International Food Policy Research Institute Washington DC., USA
9. King, F.S. (1992). Helping Mothers to Breastfeed. Association for Consumers Action on Safety and Health, Mumbai
10. Luke, B. Johnson, T.R.B.; Petrie, R.H. (1993). Clinical Maternal-Fetal Nutrition. Little Brown and Co, Boston
11. Whitney, E. N.and Rolfes, S. R. (1996) Understanding Nutrition, 7th Edition, West publishing Company, St. Paul, U.S.A.
12. Wardlaw, G. M. (2006) Perspectives in Nutrition, 7th Edition, McGraw Hill Inc, Europe

FSN-203-MJP PRACTICAL- I

Course Objectives:

- 1, Understand the etiological factors and physiological changes associated with specific disease conditions.
2. Develop an insight into the role of modified diets in specific conditions.
3. Acquire the ability to modify the normal diet to suit individuals suffering from specific diseases and lifestyle disorders

OBJECTIVES-

1. Introduction to menu planning for the family use of food guide and exchange list
2. Plan and Prepare diet for sedentary adult man and woman and modify for moderate worker and heavy worker
3. Plan and prepare diet for sedentary, moderate and heavy work pregnant women.
4. Plan and prepare diet for sedentary, moderate and heavy work lactating women (0-6 months)
5. Plan and prepare complementary (weaning) foods for infants
6. Plan and prepare diet for a preschool child
7. Plan and prepare diet for a school going children
8. Plan and prepare a diet for an adolescents
9. Plan and prepare diet for elderly
10. Plan and prepare Clear fluid diet, Full fluid diet and soft Diet
11. Plan and prepare diet for Obesity,
12. Plan and prepare diet for Underweight
13. Plan and prepare diet for Anemia
14. Plan and prepare diet for Diabetes mellitus

FSN-271-VSC-P BAKERY AND CONFECTIONARY

Course Objectives:

1. Create hands on training in the development of products.
2. The students will be able to handle equipment used in the development of bakery products.
3. To impart skill oriented knowledge regarding Bakery science

CONTENTS:

- 1.Introduction to Bakery Science
- 2.Identify and differentiate the small and large equipment used in confectionery
- 3.Standard preparation of Breads: White bread and Multigrain bread
- 4.Standard preparation of Pizza
- 5.Standard preparation of Cakes: Sponge Cake, Chocolate Cake
- 6.Standard preparation of Biscuits Wheat biscuits, Ragi Biscuits
- 7.Standard preparation of Cookies
- 8.Preparation Chocó chip cookies,
- 9.Preparation of Fondants
- 10.Preparation of Icing for cake decoration
- 11.Preparation of Candy
- 12.Preparation of Toffee
- 13.Preparation of Chikki
- 14.Preparation of Doughnut
- 15.Preparation of Fondants and Icing of the cakes preparation

References:

1. Dubey, S.C. 2007, Basic Baking, 5" Edition, Chankya Mudrak Pvt Ltd.
2. Raina et al., 2010, Basic Food Preparation- A Complete Manual, 4" Edition, Orient Black Swan Ltd.
- 3.Khanna K, Gupta S, Seth R, Mahna R, Reki T, 2004, The Art and Science of Cooking: A Practical Manual , Revised Edition, Elite Publishing House Pvt Ltd
4. Textbook of Bakery & Confectionery by Yogambal Ashok kumar

HSC-241-MNT FAMILY DYNAMICS

Course Objectives:

1. To sensitize the students towards marriage and family.
2. To understand the traditional and changing norms of the institution of the family with reference to its social environment.
3. To get familiar with the concept to marriage and Planned Parenthood and the areas of adjustment within the family.
4. To become aware of problems in family and way of coping.

UNITS	CONTENTS	LECTURES
I	Introduction Introduction of “Marriage and Family” as an institution and its importance. Meaning of traditional marriage and its functions Goals of modern marriage	07
II	Marriage 1. Pre-marital Involvement, Marriage counseling; Premarital and postmarital counseling 2. Mate selection: Guidelines for mate selection, Modes of mate selection, factors in self-choice and arranged marriage 3. Engagement: Meaning, importance and functions of engagement, Broken engagement: causes, ways of coping. 4. Wedding and Honeymoon 5. Wedding: Traditional and Court Marriage Honeymoon: Value of honeymoon, Significance of honeymoon	08
III	Family 1. Definition and types, functions of family 2. Family life cycle and developmental tasks, adjustments within family areas and patterns. 3. Alternate family patterns-causes, characteristics and implications. 4. Family crisis: Types of crisis and ways of coping.	07

IV	Parenthood 1. Conceptandsignificance ofplannedparenthood 2. Pleasuresandhazardsofparenthood 3. Familyplanningmethods:advantagesand disadvantages	08
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HSC-242-MNP FAMILY DYNAMICS

1. Survey on any one of the following topics
2. Mate selection criteria
3. Changing roles of family members
4. Pre-marital preparation by youth
5. Critical qualitative analysis of Film-Serial/Advertisement on "Marriage Ceremony"
6. Workshop on Family Planning methods by Gynecologist & report writing.
7. Workshop on premarital counseling & report writing.
8. Visit to family counseling center or matrimony center.
9. Skit presentation on Family crisis.

References:

1. Henslin J.M. (ed) (1989): Marriage and family in changing society. The Free Press U.S.A.
2. Durrall E.M. (1977): Marriage and family development Lippincott Co. Philadelphia.
3. Dyer E.D. (1983): Courtship, Marriage and family, American style, The Dorsey Press-Illians.
4. Blood, Robert and Wolfe (1960): Husband and wife dynamics and married life: Free Press, New York.
5. *Vivahanika utumbica sambadh (2009): Pharakade Triveni, Gongo Sulabha, Vidya Prakashan, Nagpur.*
6. Smart S. and Smart M. S. (1980): Families-developing relationship, Mcmillan P

HSC-243-MNT CONSUMER STUDIES

Course Objectives:

To enable students to –

1. Be aware of the consumer problem in the market
2. Become aware of the rights and responsibilities of consumer
3. Realize the importance of the effective role of consumers in the market
4. Develop good buymanship skill in the selection of goods in the market
5. Be aware of consumer protective services

UNITS	CONTENTS	LECTURES
I	CONSUMER AND CONSUMER PROBLEMS Definition of a consumer Consumer movement – Introduction and Objectives Need for consumer education Consumer Problems <ul style="list-style-type: none">• Adulteration• Faulty weights and measures• Misleading advertisements• Other problems like online banking- shopping ect.	7
II	ADVERTISEMENTS AND CONSUMER GUIDES Advertisement – Definition, Influence of advertisement on consumers, usefulness of advertisement to consumers. Misleading advertising <ul style="list-style-type: none">• Brands - meaning, types of brands, advantages and disadvantages of brands• Labels – meaning and definition of labels, types of labels.• Grading and Standardization – Role of BIS, AGMARK, FPO, ECO marks, Silk mark, wool mark, Cotton mark, Handloom mark	8
III	CONSUMER DECISION MAKING PROCESS What is consumer decision – types of consumer decision (rational and irrational) Decision making process to include problem recognition, information seeking, equation of alternatives, buying decisions, post purchase evaluation.	7

	<p>Good buymanship</p> <p>CONSUMER RIGHTS AND RESPONSIBILITIES</p> <p>Consumer Rights- eight right of consumer in details</p> <p>Consumer responsibilities- critical awareness, action, social responsibilities, environmental awareness, solidarity</p>	
IV	<p>CONSUMER PROTECTION</p> <p>What is consumer protection</p> <p>Need for consumer protection</p> <p>Consumer redressal forum-3 R'S and redressal mechanisms,</p> <p>How to provide consumer protection Act 1986 (COPRA)</p> <ul style="list-style-type: none"> ➤ MRTP Act ➤ Food Adulteration Act ➤ Essential Commodities Act ➤ Packaged Commodities Act <p>Weights and Measures Act</p> <ul style="list-style-type: none"> • Agencies CFBP, CERS, CGSI 	8

HSC-244-MNP CONSUMER STUDIES

1. Identify 5 consumer problems related to food adulteration/ faulty weights and measures/ sales gimmicks. Interview a consumer who has faced some problem related to any one of the areas mentioned above, in the market and document the same.
2. Presentation of the report
3. Collect 5 samples for labels from various products such as food/ medicines/cosmetics/clothing.
4. Write a detailed report regarding the information given to the Consumers through these labels followed by a discussion in the class regarding the positive and negative points of the labels.
5. Collect 5 samples various brands
6. Advertisements from any media like Television/ radio / print media and write a detailed report followed by a discussion in the class.
7. Observe how decision making process is used, in your own family for the purchase of some consumer product like refrigerator/television/ food processor/ washing machine and write a report
8. Procedure for Redressal for a consumer problem
9. A written report on Role of Consumer Agencies like CGSI/ CERC/CFBP in consumer protection.

References:

- 1 Ahuja B.N. & Chhabra S.S. (1989) : Advertising, Surjeet Publication, Delhi
- 2 Chunawalla S.A. (200): Commentary on Consumer Behaviour, Himalaya Publishing House,Mumbai.
- 3 Gulshan S.S. (1994) : Consumer Protection and Satisfaction, Wiley Eastern Ltd, Mumbai
- 4 Kumar N (1999): Consumer Protection In India, Himalaya Publishing House,Mumbai.
- 5 Mishra M.N. (1995): Sales Promotion and Advertising management, Himalaya Publishing House,Mumbai.
- 6 Rath S.N. (1985): Prevention of food adulteration and the Law, Deep and Deep Publications, NewDelhi.
- 7 Sherlikar S.A.: Marketing and Salesmanship, Himalaya Publishing House,Mumbai.
- 8 Sherlikar S.A.: Trade Practise and Consumer protection, Himalaya Publishing House,Mumbai.
- 9 Tiredkar K.N. and Sablok S.N. : Advertising, Vipul Prakashan, Mumbai
- 10 Varkey V.O.: Handbook on Marketing, Everest Publishing House,Mumbai.
- 11 Himachalan D. (1998): Consumer Protection And Law, APH Publishing Corporation, NewDelhi.

- 12 Javadekar P. (1994) : Grahak Savrakshan KJayda, Unmesh prakasthan, Pune
- 13 Azmi S.S.H. (1992): Sale of goods and consumer protection in India, Deep and Deep Publications, NewDelhi.
- 14 Antony M.J. (1990): Consumer Rights, Hnd Pocket Books Pvt.Ltd, NewDelhi.
- 15 Consumer Laws (1985): Consumer Guidance Society Of India, Bombay.
- 16 Loudon David L. (1993): Consumer Behaviour: Concepts and applications, McGraw Hill Inc., NewYork.
- 17 Fetterman E. et al (1976): Consumer educaton in practice, John Wiley and sons, NewYork.
- 18 Mehta S.C. (1993): Indian Consumers – Studies and cases for marketing decisions, Tata McGraw Hill Pub., NewDelhi.
- 19 Garman E.Thomas et al. (1974) : The consumer's world- Buying, money management and issues, McGraw Hill Book Co. NewYork
- 20 Schiffman L. (2000): Consumer Behaviour, Prentice Hall Of India Pvt. Ltd., NewDelhi.

OE-201-HSC MARRIAGE AND FAMILY STUDIES

Course Objectives:

1. To sensitize the students towards marriage and family.
2. To understand the traditional and changing norms of the institution of the family with reference to its social environment.
3. To get familiar with the concept to marriage and Planned Parenthood and the areas of adjustment within the family.
4. To become aware of problems in family and way of coping.

UNITS	CONTENTS	LECTURES
I	Introduction Introduction of 'Marriage and Family' as an institution and its importance. Meaning of traditional marriage and its functions Goals of modern marriage	07
II	Marriage Pre-marital Involvement, Marriage counseling; Premarital and postmarital counseling Mate selection: Guidelines for mate selection, Modes of mate selection, factors in self-choice and arranged marriage Engagement: Meaning, importance and functions of engagement, Broken engagement: causes, ways of coping. Wedding and Honeymoon Wedding: Traditional and Court Marriage Honeymoon: Values of honeymoon, Significance of honeymoon	08
III	Family Definition and types, functions of family Family life cycle and developmental tasks, adjustments within family areas and patterns. Alternate family patterns - causes, characteristics and implications. Family crisis: Types of crisis and ways of coping.	07
IV	Parenthood 10. Concept and significance of planned parenthood 11. Pleasures and hazards of parenthood 12. Family planning methods: advantages and disadvantages	08

References:

1. Henslin J.M.(ed)(1989):Marriageandfamilyinchangingsociety.Thefree preasU.S.A.
2. Dural E.M.(1977):Marriageand familydevelopmentLippincottco.philadelphia.
3. Dyer E.D. (1983):Courtship,Marriageand family,Americanstyle,TheDorsey press-Illians.
4. Blood,RobertandWolfe(1960):Husbandand wifedynamicsandmarriedlife:Free press,Newyork.
5. *Vivahanika utumbica sambadh*(2009):*Pharaka de Triveni, Gongo Sulabha, Vidya Prakashan, Nagpur.*
6. Smart S.and Smart M. S.(1980):Families-developingrelationship,Mcmillan P

FSN-250-IKS TRADITIONAL INDIAN FOODS

Course Objectives :

1. To create understanding on historical and cultural perspective of Indian foods
2. To acquire basic information on the traditional foods of different regions of India
3. To introduce Festival food of India

UNITS	CONTENTS	LECTURES
I	Historical and Cultural perspective Introduction Objectives Philosophy of Indian Food Pre Ancient Era Ancient Era The Great Indian Cuisine – Key Features	07
II	Regional Influences on Indian Food Indian Regional Cuisine at a glance Typical Breakfast, meal and snack and street food of- South India North-east North India Western India Eastern India	08
III	Festival Foods in India South India North-east North India Western India Eastern India	08
IV	Foods of Modern India Crops cultivated and agriculture, Food storage, Food preparation, Tools, equipments and utensils	07

References:

1. Colleen Taylor Sen, 2015 “Feasts and Fasts: A History of Food in India”
2. Hause & Alan M. & Labensky & Sarah R. & Martel & Priscilla A, 2013 “On Cooking : A 3Textbook of Culinary Fundamentals”
3. K. T. Achaya” 1994, “Indian Food Tradition: A Historical Companion”
4. Ken Albala, 2013 “Food: A Cultural Culinary History”
5. Linda Civitello, 2011, “Cuisine and Culture: A History of Food and People”
6. Lizzie Collingham, 2006 “Curry: A Tale of Cooks and Conquerors”
7. Marcus, Jacqueline B. , 2013 “Culinary Nutrition”
8. Nilanjana Roy, 2004, “A matter of Taste” the penguin book of Indian writing on Food.”
9. Vaishali Tripathi, 2017 “Traditional Indian Thali: Maharashtyan, Gujarati
10. Rajashthani, Punjabi, South Indian Thali “[Vegetarian]

FSN- 231- FP Field Project

Course Objectives:

- 1.To expose students to practical field-based applications of Food Science and Nutrition .
- 2.To understand indigenous Foods in Rural Area ,
- 3.To encourage project work, teamwork, and reporting based on real-world in Nutrition
- 4.To help students understand the role of Nutrition in Rural and Urban Population and industrial area
- 5.To build skills in scientific documentation, field ethics, and communication .

Contents

Field Area

- 1.Dairy industry
2. Anganwadi
- 3.Preschool
- 4.Food processing Unit
- 5.Rural Hospitals
- 6.Self help Group

Project Examples: (Sample Only)

Survey on Locally available Food

Survey on Weaning Food

Study on Traditional foods

Survey on Pregnant Women Diet

Survey on Adolescent Problems

Survey on Anemia

Survey on Adolescent Obesity

Teaching-Learning Methods:

Orientation lectures on project planning

Field visits and guided sample collection.

Data analysis workshops.

Guidance sessions for report writing and presentation.

Structure of Project Report:

1. Title Page
2. Certificate by Guide/Institution
3. Student Declaration Certificate

4. Acknowledgment
5. Abstract
6. Table of Contents
7. List of Figures, Tables, and Photographs

Chapter 1: Introduction: Background, problem statement, objectives, scope of the study.

Chapter 2: Review of Literature

Chapter 3: Materials and Methods: Description of field sites, Sampling methods and techniques used, Safety and ethical considerations, team members' roles.

Chapter 4: Results Presentation of collected data (graphs, tables, images).

Chapter 5: Discussion, Interpretation, and implications of results.

Chapter 6: Conclusion and Recommendations: Summary of findings, Suggestions for future work or applications.

References/Bibliography

Appendices: Logbook entries, additional photos, fieldwork certificates, etc.

Evaluation Scheme:

Internal Evaluation (15 Marks)

Parameter Marks

Area/Topic Selection 5

Regular Fieldwork and Follow-up 10

External Evaluation (35 Marks)

Parameter Marks

Project Report 15

Logbook/Record Book 10

Viva-Voce (Oral Examination) 10

SEMESTER –IV

FSN-251-MJT FOOD PRESERVATION

Course Objectives:

1. To understand the basic principles of food preservation.
2. To understand the need and scope of food preservation
3. To learn the various preservation techniques and their applications
4. To develop an awareness regarding commercial techniques of food preservation and Packaging

UNITS	CONTENTS	LECTURES
I	<ul style="list-style-type: none">• Introduction to food preservation• Importance, scope and objectives of food preservation • Basic principles of food preservation• Traditional methods of food preservation.• Selection criteria for preserved food products• Factors affecting post-harvest storage stability of foods.• Causes and classification of food by ease of spoilage <p>Methods of food preservation:</p> <ul style="list-style-type: none">• Asepsis or keeping out micro organisms, different techniques applied for asepsis.• Removal of micro organisms, use of different filters and other techniques to remove micro organisms-washing, centrifugation, filtration	08
II	<p>Methods of Food Preservation involving temperatures Use of high temperature</p> <ul style="list-style-type: none">• Factors affecting heat resistance, TDT and Pasteurization • Canning (green peas, mushroom, mango pulp, pineapple) and its use in food industry <p>Use of low temperature</p> <p>Blanching</p> <p>Freezing (slow, quick freezing)</p> <p>frozen storage,</p> <p>changes during storage and thawing</p>	07

III	<p>Drying or dehydration</p> <p>Factors affecting dehydration, pretreatments and post treatments, different techniques of dehydration. sun dryer. foam mat dryer, tunnel drying, vacuum drying,</p> <p>Intermediate moisture food</p> <p>Other Methods of Food Preservation-</p> <p>Use of preservatives</p> <ol style="list-style-type: none"> 1. PFA classification of food preservatives- class I and class II preservatives, developed preservatives. 2. Irradiation, its advantages and disadvantages. 3. Other methods- microwave heating, hurdle technology, wax emulsion 	08
IV	<p>Food Packaging</p> <ol style="list-style-type: none"> 1. Importance of packaging 2. Types of packaging materials available in the market. 3. <p>Characteristics of an ideal packaging</p> <ol style="list-style-type: none"> 4. Advantages of packaging 5. FAO, FSSAI, AGMARK, HACCP, 	07

References:

1. Frazier W. & Westhoff. D. (1988): Food Microbiology, Tata McGraw- Hill Publisher • Subbulakshmi G. and Udipi S.A. (2001): Food Processing and Preservation, New Longree K and Armbruster John Wiley and Sons, Quantity food sanitation 4th edition
2. Roday, Food sanitation and hygiene (1989): Basic Food Microbiology, Chapman and Hall Publication, New York
3. Desrosier N.W., (1963), The Technology of Food Preservation. The AVT Publishing Company.
4. Salunke D.K., (1974), Storage, Processing and Nutritional Quality of Fruits & Vegetables, C.R.S. Press, Cleveland Ohio.
5. Banwart G.J., (1989), Basic Food Microbiology, Chapman & Hall Publication, New York. • Girdharilal, Siddappa .G.S. and Tandon .G. L., Preservation of Fruits and Vegetable published, ICAR, New Delhi
6. Dr Swaminathan .M., Food Science Chemistry and experimental Foods Published by the Bangalore Printing and Publishing co. Ltd.
7. Longree, K. and Armbruster, G. (1996) Quantity Food Sanitation, 5th Edition, John Wiley, New York, U.S.A.
8. Dr Swaminathan .M., Food Science Chemistry and experimental Foods Published by the Bangalore Printing and Publishing co. Ltd.
9. Longree, K. and Armbruster, G. (1996) Quantity Food Sanitation, 5th Edition, John Wiley, New York, U.S.A

FSN- 252-MJT FOOD MICROBIOLOGY

Course Objectives:

1. To understand the nature and the role of microorganisms in food.
2. To have a knowledge of the basic principles of food sanitation and safety.
3. To acquire a perspective of the importance of microorganisms in environmental microbiology.
4. Identify the factors affecting microbial growth in food and describe mechanisms of food spoilage.
5. Explain the role of beneficial microorganisms in food

UNITS	CONTENTS	LECTURES
I	Introduction to Food Microbiology Importance & Scope of microbiology. Introduction to microorganisms-Classification of Micro-organisms (bacteria, algae, fungi, protozoa and viruses) General characteristics and classification of microorganisms Contamination from air, water, soil, sewage Sterilization and Disinfection	07
II	2. Food Spoilage and Contamination (1) Contamination and spoilage of cereals, grains and cereal products. (2) Contamination and spoilage of Fruits and Vegetables (3) Contamination and spoilage of eggs, fish and meats (4) Contamination and spoilage of milk and milk products. (5) Contamination and spoilage of Sugar and Sugar Product and milk products	08
III	Beneficial effects of microorganisms. Microbial fermentation and Role of microorganisms in Food fermentations <ul style="list-style-type: none">• Beer• Wine• Bread• Indian pickles• Fermented dairy products Curd, yoghurt & cheese• Vinegar Indian fermented products –Idli, dhokla, khaman.	10
IV	Definitions and differentiation between: <ul style="list-style-type: none">➤ Food poisoning and infections.➤ Salmonella and Clostridium Botulism➤ Staphylococcus	05

References:

1. Ananthanarayan and Paniker's, 2016. A Text book of Microbiology, 7th edition. Orient Blackswan, Hyderabad.
2. Tolaro. K. P., 2009. Foundations in Microbiology, 7th International edition. McGraw Hill Education, Bangalore.
3. Michael. T. M., Thomas. D. B., 2008. Brock biology of microorganisms, 12th edition, CA: Pearson/Benjamin Cummings, San Francisco
4. Purohit S. S., 2003. Microbiology fundamentals and applications, 6th edition, Agrobios Publisher, Jodhpur.
5. Frazier W. C. and Westhoff D. C. 2004. Food Microbiology, TMH Publication, New Delhi.
6. Stanier. R. Y., Ingraham. J. L., Wheelis. M. L. and Painter. P. R., 2001. General Microbiology, 5th edition, Macmillan Education Ltd., London.
7. Michael J. P., Chan. C. S., Noel R. K., 1986. Microbiology 5th edition, McGraw Hills Publication, America.

FSN- 253-MJP: PRACTICAL- II

1. Introduction to Food Preservation -Aseptic handling in laboratory
2. Sugar preserves-: Preparation of jam, jellies, morabba and marmalade, Preparation of fruit peels, toffees
3. Sauces: Preparation of tomato ketchup and sauce, Preparation of Red chilli, Green chilli and tamarind sauce
4. Syrups and squashes:
5. Home scale methods for making synthetic syrups and squashes (Pineapple, Sweet lime, Lemon, Orange)
6. Preparation of the following:
 - a. Masalas (Tea, Milk Masala, Sambhar, Pavbhaji, Chat Masala, Garam Masala,)
 - b. Dry Chutney (Metkut, Dangar, Niger Seed Chutney, Flax Seed Chutney, Coconut Chutney)
7. Freezing of fruits and vegetables
8. Regional/Dehydrated foods (Sandge, Kurudai, Wafers and Papad)
9. Preparation of pickles (on basis of expected shelf life): Short and long shelf life pickles, Sweet pickles, Spicy and sour pickles with or without oil (Lemon, Mango, Green Chillies and Mix Vegetable Pickles) To study the Introduction to the Basic Microbiology Laboratory Practices.
10. To study the use of instruments for microbiology (Incubator, oven, autoclave, water bath etc.
11. To study the functioning and use of compound microscope.
12. To Prepare culture media(Nutrient broth, Nutrient agar, Macconkeys agar, Sabouraud's agar).Sterilization of media

FSN-271-VSC-P MILLET PROCESSING

Course Outcomes:

1. Identify and classify different millet grains based on physical, chemical & nutritional properties
2. Demonstrate cleaning, grading, and dehushing of millets using laboratory-scale equipment.
3. Prepare traditional and modern value-added millet products
4. Learn about packaging & storage material used for millet

CONTENT

Introduction to Millets

- Identification and classification of millets (major and minor)
- Physical and chemical characteristics

Pre-processing Techniques

- Cleaning, grading, and destoning
- Soaking and germination of millets
- Dehusking, Malting & Fermentation

Milling and Flour Preparation

- Dry and wet milling of millet grains
- Preparation of millet flour using stone mills or hammer mills
- Sieving and storage techniques

Preparation of Millet-Based Products

- Traditional products: **Roti, Idli, Upma**
- Formulated Products: Extruded millet snacks & Instant mixes
- Bakery Products: Cakes & Cookies

Packaging and Storage

- Packaging materials for millet and millet products
- Storage conditions and shelf-life evaluation
- Visit to a millet processing or food industry unit

HSC-291-MNT EARLY CHILDHOOD CARE AND EDUCATION

Course Objectives:

1. To develop and understand the need and importance of early childhood education.
2. To develop and understand curricular planning.
3. To learn various skills required for conducting developmentally appropriate program for children.
4. To gain insight into the organization and management of a preschool center.

UNITS	CONTENTS	LECTURES
I	Introduction Meaning, Importance and Objectives of ECE Organization of Preschool Centers: different types of preschool, physical setup, equipments- importance, selection & care Maintaining records and reports and its importance	07
II	Contribution of Child Educators and Programme planning Maria Montessori, Froebel, Rousseau, Tarabai Modak, Ravindranath Tagore, Mahatma Gandhi, Learning through play Play meaning, values, types, stages, play-way method	08
III	Components of ECE programme Child directed and Teacher directed activities need and values. Long term and short term planning Creative activities- painting, cutting and pasting, blocks sand play, water play, clay modeling- values and role of teacher of teacher Language activities- Types and methods 1. Songs 2. stories 3. Puzzles 4. Internal Talk 5. Object Talk 6. Selection of songs and stories for or preschoolers. Science activities, Importance and Types, Role of Teacher Social Studies- Importance and activities and celebration of festivals Mathematics and 3 R.S. Types of activities	07

IV	Working with parents and guiding children Importance of Parental Involvement and ways of parental involvement. Guiding children in daily situation: Feeling of Insecurity and Hostility.	08
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HSC-292-MNP EARLY CHILDHOOD CARE AND EDUCATION

1. Observation of Nursery school and writing a report.
2. Creative and craft activities-Different types of drawing, Different types of painting. Finger painting
Modeling, Tearing, cutting and collage making
3. Threading and Lacing-
4. Language Activities picture book, Collection of objects
5. Storytelling techniques. Preparing and telling a story
6. Science-Listing of science experiences
7. Mathematics-Preparing kit on pre-mathematical concepts
8. Music and movement-Collection of songs (i.e. Marathi, Hindi, English) • Singing songs in right tune
and pitch.
9. Making musical instrument
10. Readiness Activities-Reading readiness activities (Matching sets visual discrimination cards, Work pages
etc.)
11. Writing Readiness activities (Pencil Fun Games, Simple to Complex activities).
12. Games: Indoor and Outdoor.

References:

1. Skipper Witherspoon (1987) Good Schools for young children, Macmillan Publishing co,
New York.
2. Read K. (1967) The Nursery school Oxford IBH Publishing co, Dales.
3. Kulkarni S. (1998) Parent Education, Perspective and Approaches, Rawat
Publication, Jaipur.
4. Brewer: Early Childhood Education.
5. Desai Anupama, Vinita Apate- Learning through environment.
6. Spodek B. (1973) Early Childhood Education. Prentice Hall, New Jersey

HSC-293-MNT EVENT MANAGEMENT

Course Objectives:

1. Students will learn and understand the basic things in event management
2. Students will get knowledge about concept and design of the event
3. Students will learn the feasibility in event planning
4. Students will get acquainted about event marketing
5. Students will learn to know various human resource functions in event management
6. Students will learn various methods for event promotion and media functions
7. Students will learn the budgeting and to write the event proposals and event project

UNITS	CONTENTS	LECTURES
I	Introduction to Event Management: Events Defined, meaning & size of events, types of events, Importance & scope, qualities of an event manager	6
II	Concept & Design: 5 C's of events Developing the concept- Planning, controlling, organizing, evaluation Designing the events Staging - Choosing the event sight, Developing the theme, Conducting the rehearsals, Providing services, Arranging catering Protocol – Titles, Dress for formal occasions, protocol for speakers	8
III	EVENT MARKETING: Introduction to Event Marketing Nature of Event Marketing Process of Event Marketing The marketing Mix sponsorship	8

	Keys to Success, The SWOT Analysis	
IV	Promotion & Media: Purpose of promotion Use of different media – Print media, Networking Components, Radio, T.V, Internet, cable, Outdoor media, sponsorships at venues Factors to make promotion effective, solidarity. Event Proposal & Project Preparing the event Budget	8

References :

1. Sanjaya singh Gaur, Sanjay V. Saggere, Event marketing & mgmt, Frank Bros & CO
2. Getz D Cognizant, Event Mgmt & Event Tourism,
3. Communication Corporation
4. Raguda, Media & Communications Mgmt, Himalaya Publishing House
5. Gold Blatt, Best Practices in Modern Event mgmt
6. Dr. C.B. Memoria, Best Practices in Modern Event mgmt
7. Watt D. Longman, Leisure & Tourism Events Mgmt & Organizational Mgmt
8. Weaver D.John, Tourism Mgmt, Wiley & Sons
9. J.M. Mathe, Hospitality marketing & management, Avishkar Publications

HSC-294-MNP EVENT MANAGEMENT

1. Topic/ content Analysis
2. Planning & Evaluation for organizing sp. Events new year celebrations, birthday parties or any types of celebration.
3. Preparation & budget
4. Promotion
5. A study on marketing of any festival for advertisement.
6. Advertising for any event.
7. Selection of media and presentation skills Visit to hotel, fair any intuitions.
8. Exercise on interpersonal skill & communication. Preparation of communication management for any event.
9. Decoration for special event.
10. Staging- choosing the event site, conducting the rehearsals, providing services, titles of the shows, Dress for formal occasion, protocol for speakers.

OE-251-HSC-P MARRIAGE AND FAMILY STUDIES

Course Objectives:

1. To sensitize the students towards marriage and family.
2. To understand the traditional and changing norms of the institution of the family with reference to its social environment.
3. To get familiar with the concept of marriage and Planned Parenthood and the areas of adjustment within the family.
4. To become aware of problems in family and way of coping.

CONTENTS-

1. Survey on any one of the following topics
2. Mate selection criteria
3. Changing roles of family members
4. Pre-marital pre-preparation by youth
5. Critical qualitative analysis of Film-Serial/Advertisement on "Marriage Ceremony"
6. Workshop on Family Planning methods by Gynecologist & report writing.
7. Workshop on premarital counseling & report writing.
8. Visit to family counseling center or matrimony center.
9. Skit presentation on Family crisis.

References:

1. Henslin J.M. (ed) (1989): Marriage and family in changing society. The free press U.S.A.
2. Dural E.M. (1977): Marriage and family development Lippincott co. Philadelphia.
3. Dyer E.D. (1983): Courtship, Marriage and family, American style, The Dorsey press-Illians.
4. Blood, Robert and Wolfe (1960): Husband and wife dynamics and married life: Free press, New York.
5. *Vivahanika utumbica sambadh* (2009): Pharakade Triveni, Gongo Sulabha, Vidya Prakashan, Nagpur.
6. Smart S. and Smart M. S. (1980): Families-developing relationship, Mcmillan P

SEC-251-HSC-P TEACHING AIDS IN HOME SCIENCE EXTENSION EDUCATION

Need Assessments of Community

1. Assessing prevailing conditions of community focusing on aspects such as Health, Population, Housing, Education, Sanitation, etc.
2. Compilation of data collected utilizing it for preparing Preparation of questionnaire
3. Conduct a survey on different current issues of community
4. Analysis of information about conducting survey (Group discussion)

Community Contact Methods

1. Preparation of Graphic Aids- Posters, Charts, Leaflets etc. for selected target group.
2. Preparation of suitable communication aids for individual contact
3. Preparation of suitable communication aids for group contact
4. Preparation of suitable communication aids for mass contact
5. Enlist different traditional medias
6. Enlist modern media

Technology-Based Aids:

1. Interactive Whiteboards:
 2. These devices allow for interactive learning and can be used to present multimedia content, engage students in group activities, and facilitate discussions.
3. Educational Apps:
 4. Apps can provide interactive lessons, games, and quizzes, making learning more enjoyable and effective.
- Virtual Reality:
 5. Virtual reality can simulate real-life scenarios, such as field trips to historical sites or demonstrations of complex concepts.
6. Multimedia Projectors:
 7. Projectors can be used to display a variety of materials, including videos, presentations, and interactive simulations.

FSN- 281- CEP COMMUNITY ENGAGEMENT PROGRAM

Course Objectives:

- 1.To enable students to apply Food Science and Nutrition concepts for the benefit of local communities
- 2.To promote awareness of Breast feeding,Weaning foods, Low cost locally available food , balanced Diet, anemia diet, hygiene and sanitation in Kitchen
- 3.To develop skills in communication, teamwork, leadership, and public outreach
- 4.To bridge the gap between classroom learning and real-world community problems
- 5.To cultivate social responsibility and ethical scientific practices among Food science and Nutrition students

1. Orientation & Planning 15L

- Importance of Home science outreach and Food Science and Nutrition in community health. 2.Training in communication skills, ethics, and safety.
- 3.Team formation and selection of target community/topic.

2. Community Engagement Activities 15L

Students (in groups) will carry out one or more of the following:

Awareness campaign of Breast feeding,Weaning foods, Low cost locally available food , balanced Diet, anemia diet, hygiene and sanitation in Kitchen ,Immunization

Planning + Reporting 15L

- Designing posters, pamphlets, or short videos for awareness
- Demonstrations using posters, models, videos, or hands-on activities
- Distribution of pamphlets created by students.
- Interaction with schools, self-help groups, Anganwadi and
- Group discussions with community members

Documentation & Presentation 15L

- 1.Maintain logbooks or field diaries.
- 2.Collect community feedback and summarize outcomes.
3. Final group report submission.

4.Oral/poster/ppt presentation of experiences and impact.

Rules for CEP Work:

1. Group Formation and Size: Students will be assigned to groups based on the project theme. Each group should consist of a minimum of 4 students and a maximum of 6 students, depending on the nature and scope of the project.
2. Community Engagement Work Requirement: Each group must complete 7 full days or 15 part-time days of active community engagement work. Students must submit certificates of completion or photographic evidence in the final report if the fieldwork is conducted at a recognised institution or organisation.
3. Project Report Submission: Students must submit a printed and bound report with a minimum of 5,000 words. The report should be neatly organised and include charts, graphs, photographs, maps, and other relevant illustrations.
4. Role and Responsibility Documentation: The methodology section of the report must clearly outline the roles and responsibilities undertaken by each group member during the project.

Sample Community Engagement Themes for Food Science and Nutrition

Awareness campaign of Breast feeding, Weaning foods, Low cost locally available food , balanced Diet, anemia diet, hygiene and sanitation in Kitchen ,Immunization

Evaluation Scheme:

Internal Evaluation (15 Marks)

Parameter Marks

Area/Topic Selection 5

Regular Fieldwork and Follow-up 10

External Evaluation (35 Marks)

Parameter Marks

Project Report 15

Logbook/Record Book 10

Viva-Voce (Oral Examination) 10

Savitribai Phule Pune University, Pune

(Formerly University of Pune)



Second Year B.Sc. Program in Textile and Clothing

(Faculty of Science & Technology)

S.Y. B.Sc.(Home Science)

To be implemented from Academic Year 2025- 2026

Introduction to Undergraduate Degree Course in Home Science:

As per the recommendations of UGC-F-2022, the undergraduate (UG) degree course in Home Science is a 6-semester course spread over 3-academic years. The Teaching Learning Process (TLP) is students' centric. It involves both theory and practical components. It offers a flexibility of program structure while ensuring that the student gets a strong foundation in the subject and gains in depth knowledge. Besides the DSCs (Major Core), a student has options courses from the syllabus comprising of DSEs (Minor), GEs, SECs, IKSs and VSCs. Hence, this will bring out the interdisciplinary as well as multidisciplinary approach and adherence to innovative ways within the curriculum framework. It also allows a student's maximum flexibility in pursuing her studies at the undergraduate (UG) level to the extent of having the liberty to eventually design the degree with multiple exit options. Students have these exit options depending upon the needs and aspirations of the student in terms of her goals of life, without compromising on the teaching learning, both in qualitative and quantitative terms. This will suit the present day needs of students in terms of securing their paths towards higher studies or employment.

SEMESTER-III

TC-203-MJT CLOTHING MANAGEMENT

Course Objectives:

- 1) To impart knowledge of Fibers, sources of fibers and their properties
- 2) To impart knowledge Machines and tools used for sewing.
- 3) To impart knowledge Clothing for different age groups

UNITS	CONTENTS	LECTURES
I	Clothing Importance of Clothing Clothing demands or requirements during different stages of family life cycle. Management Responsibilities in clothing a family Theories of clothing – theory of modesty, immodesty, protection, adornment, combined need theory	07
II.	Family resources affecting clothing management Human relationship in clothing family Group Problems in clothing a family Money cost of clothing the family Technical problems in clothing a family Clothing Management Process	08
III	Wardrobe Planning Factors Affecting on clothing management Factors affecting selection or buying of clothes Clothing for different age groups with special reference to fabrics, colours, style and details	07
IV	Management in selection and care of clothing Renovation of clothing	08

References:

1. Tholia Akshay, (2011) Fabric Swatch Work Book, Ist Edition, Published by SARU International.
2. Cream, Penelope., (1996) The Complete Book of Sewing - A Practical Step by Step Guide to Sewing Techniques, DK Publishing Book, New York.
3. Janace E. Bubonia. (2012) Apparel production terms and processes, Fairchild Books, New York.

4. Thomas, (1986) The Art of Sewing UBSPD Publishers Distributors Ltd. New Delhi Bray, Natalie., More Dress Pattern Making, BSP.
5. Holman, Gillian., (1997) Pattern Cutting Made Easy, BSP.

TC-204-MJP HOME TEXTILE AND CARE

UNITS	CONTENTS	LECTURES
I	History and evolution of home Textiles <ul style="list-style-type: none">• Furnishings importance and their functions.• Selection, care and maintenance of different household textiles- Table linen, bath linen, kitchen towels and napkins• Floor covering• Bed linen• Curtains and draperies	08
II	Clothing as a portable environment: Protective clothing- health professionals, farm, industrial workers, fire fighters <ul style="list-style-type: none">• Clothing design to accommodate physical disabilities and irregularities• Clothing design for military• Impact protective clothing• Significance of uniforms and national costumes	07
III	Household Linen Care maintenance and Selection- Kitchen Linen Table Linen Bed Linen Bath Linen Draperies and Curtains Rugs and Carpets	08
IV	Selection of costume according to age group and gender Factors affecting selection of clothing – <ul style="list-style-type: none">• Economic factors• Psychological effects of clothing• Socio- psychological aspects of clothing Clothing symbolism, fashion, fad, costume, tradition, culture	07

References:

1. Winget, Textiles and their selection.
2. Anal tong, Home furnishing, Wiley Eastern, New Delhi.
3. Heather Luke, Lets Home Decorator, Soft furnishing, Charles Letts and Co.

4. Readers Digest, the complete book of sewing.
5. Bane A. Creative clothing constructions, Mc Graw.
6. Carson B., How you look and dress, Mcgraw Hill Book Company.
7. Savitri Pandit, Manual of Childrens Clothing, Orient Longmans Ltd.
8. Tate and Glisten, Clothing for family, John Wily and Co., USA
9. Cooklin G. 1997. Garment Technology for Fashion Designers. Blackwell Science.
10. Kilgus R. (Ed.) 1999. Clothing Technology. Europa Lehrmittel, Textile Institute, Manchester.
11. Cranz RLM. 1972. Clothing concepts. Collier Mcmillan.

TC-204-MJP PRACTICAL III

Clothing

1. Basic hand stitches- Basting, Hemming-visible/invisible, Tailor's tack.
2. Practice exercise of Basic seams
3. Types of Seam - Plain, Run and fell, French, lapped.
4. Types of Seam
5. Finishes- Overlock, Hand overcasting, Turned and Stitched, Binding
6. Make any one sample of Home decor
7. Make any one sample of Table linen/Bed Linen
8. Making of any home textile article by using embroidery
9. Survey on selected functional clothing available in the market
10. Designing clothing for pregnant women and nursing mothers. Specify (illustration or stitching)
11. Project Making - Study of various household textiles-fiber content, yarn type, weave, design and finish.
12. Rug making from old fabrics

TC-VSC-222 TRADITIONAL EMBROIDERIES OF INDIA I

UNITS	CONTENTS	LECTURES
I	<p>Introduction of Origin, Significance, Tools, Materials, Stitches, Motifs, Colors, and Products Used in traditional Indian embroideries. (North & South India)</p> <ul style="list-style-type: none"> ● Kashida of Kashmir ● Chikankari of Uttar Pradesh 	07
II	<p>Introduction of Origin, Significance, Tools, Materials, Stitches, Motifs, Colors, and Products Used in traditional Indian embroideries. (North & South India)</p> <p>Phulkari of Punjab</p> <ul style="list-style-type: none"> ● Chamba Rumal of Himachal Pradesh ● Kasuti of Karnataka 	08
III	<p>Introduction of Origin, Significance, Tools, Materials, Stitches, Motifs, Colors, and Products Used in traditional Indian embroideries. (East & West India)</p> <ul style="list-style-type: none"> ● Kantha of Bengal ● Gold & Silver Metal embroidery (Zari & zardozi) 	07
IV	<p>Introduction of Origin, Significance, Tools, Materials, Stitches, Motifs, Colors, and Products Used in traditional Indian embroideries. (East & West India)</p> <ul style="list-style-type: none"> ● Embroidery of Gujarat ● Manipuri of Manipur. ● Applique of Orissa & Pipli 	08

References:

1. Brij Bhushan Jamila – Costumes and Textiles of India, D B Taraporewala and Sons, 1958.
2. Chattopadhyaya Kamaladevi – Carpets & Floor covering of India, Secretary of Indian Council for Cultural relations, New Delhi. D. B. Taraporewala & Sons Co. Pvt. Ltd., 1976.
3. Chattopadhyaya Kamaladevi – Handicrafts of India, Secretary of Indian Council for Cultural relations, New Delhi. D. B. Taraporewala & Sons Co. Pvt. Ltd., 1976.

4. Desai Chelna – Ikat Textiles of India, San Francisco, Chronicle Books, 1987
5. Dongerkery Kamala – Romance of Indian Embroidery, Thaker and Co. Ltd
6. Garewal Neelam– Needlelore, Delhi, Ajanta Publishing, 1988.
7. Irwin & Hall – Indian Embroidery, Calico Museum of Textiles.
8. Jasleen Dhamija and Jay Jyotindra – “Hand woven Fabrics of India.” Ahmedabad, Mopin Publishing, 1991.
9. Joshi Indira – Kasuti of Karnataka, Popular Prakashan, Mumbai, 1963.
10. Kapur Chishti & Amba Sanyal – Saris of India, Madhya Pradesh, RTA, New Delhi: Wiley Eastern Ltd., 1989.
11. Kirloskar Ahilya – Karnataki Kashida, Pune, Pushpa Barkhe, 1991.
12. Kothari Gulab – Colourful Textiles of Rajasthan, Jaipur, Jaipur Printers, 1995.
13. Lynton Linda– The sari-style – patterns – History – Techniques, London : Thames & Hudson , 1995.
14. Marg Publication – Textiles and Embroideries of India, Bombay, Marg Publication, 1962.
15. Mehta Rustam J. – Handicrafts of India Taraporewalla house of Books, Bombay.
16. Mehta Rustom J. – Masterpieces of Indian Textiles, Taraporewala House of Books, Bombay.
17. Murphy V. & Crill R.- Tie & Dye Textiles of India, Victoria Albert Museum, London, 1991.
18. Naik Shailja –Traditional Embroidery of India, New Delhi, A P H Publishing Co, 1997.
19. Pandit Savitri – Indian Embroidery, Jaymudra, Baroda.

TC- 231- FP FIELD PROJECT

Course Objectives:

1. To expose students to practical field-based applications of Textile and Clothing
2. To understand awareness about Clothing in Rural and urban area
3. To encourage project work, teamwork, and reporting based on real-world.
4. To build skills in scientific documentation, field ethics, and communication.

Contents

Field Area

1. Textile Park
2. Weaving Centre
4. Garment Industry
5. Boutique

Project Examples: (Sample Only)

Survey on Age wise Clothing

Survey on Fashion

Study on Traditional Costumes

Teaching-Learning Methods:

Orientation lectures on project planning

Field visits and guided sample collection.

Data analysis workshops.

Guidance sessions for report writing and presentation.

Structure of Project Report:

1. Title Page
2. Certificate by Guide/Institution
3. Student Declaration Certificate
4. Acknowledgment
5. Abstract
6. Table of Contents
7. List of Figures, Tables, and Photographs
8. Chapter 1: Introduction: Background, problem statement, objectives, scope of the study.
9. Chapter 2: Review of Literature
10. Chapter 3: Materials and Methods: Description of field sites, Sampling methods and techniques used, Safety and ethical considerations, team members' roles.
11. Chapter 4: Results Presentation of collected data (graphs, tables, images).

12. Chapter 5: Discussion, Interpretation, and implications of results.
13. Chapter 6: Conclusion and Recommendations: Summary of findings, Suggestions for future work or applications.
14. References/Bibliography
15. Appendices: Logbook entries, additional photos, fieldwork certificates, etc.

Evaluation Scheme:

Internal Evaluation (15 Marks)

Parameter Marks

Area/Topic Selection 5

Regular Fieldwork and Follow-up 10

External Evaluation (35 Marks)

Parameter Marks

Project Report 15

Logbook/Record Book 10

Viva-Voce (Oral Examination) 10

HSC-241-MNT FAMILY DYNAMICS

Course Objectives:

1. To sensitize the students towards marriage and family.
2. To understand the traditional and changing norms of the institution of the family with reference to its social environment.
3. To get familiar with the concept to marriage and Planned Parenthood and the areas of adjustment within the family.
4. To become aware of problems in family and way of coping.

UNITS	CONTENTS	LECTURES
I	Introduction Introduction of “Marriage and Family” as an institution and its importance. Meaning of traditional marriage and its functions Goals of modern marriage	07
II	Marriage Pre-marital Involvement, Marriage counseling; Premarital and postmarital counseling Mate selection: Guidelines for mate selection, Modes of mate selection, factors in self-choice and arranged marriage Engagement: Meaning, importance and functions of engagement, Broken engagement: causes, ways of coping. Wedding and Honeymoon Wedding: Traditional and Court Marriage Honeymoon: Values of honeymoon, Significance of honeymoon	08
III	Family Definition and types, functions of family Family life cycle and developmental tasks, adjustments within family areas and patterns. Alternate family patterns-causes, characteristics and implications. Family crisis: Types of crisis and ways of coping.	07
IV	Parenthood Concept and significance of planned parenthood Pleasures and hazards of parenthood Family planning methods: advantages and disadvantages	08

HSC-242-MNP FAMILY DYNAMICS (60 LECTURE)

1. Survey on any one of the following topics
2. Mate selection criteria
3. Changing roles of family members
4. Pre-maritalpre-preparationbyyouth
5. CriticalqualitativeanalysisofFilm-Serial/Advertisementon“MarriageCeremony”
6. WorkshoponFamilyPlanning methodsbyGynecologist &reportwriting.
7. Workshoponpremaritalcounseling&reportwriting.
8. Visittofamilycounseling centerormatrimony center.
9. SkitpresentationonFamilycrisis.

References:

1. HenslinJ.M.(ed)(1989):Marriageandfamilyinchangingsociety.Thefree preasU.S.A.
2. DuralE.M.(1977):Marriageand familydevelopmentLippincottco.philadelphia.
3. DyerE.D. (1983):Courtship,Marriageand family,Americanstyle,TheDorseypress-Illians.
4. Blood,RobertandWolfe(1960):Husbandand wifedynamicsandmarriedlife:Freepress,Newyork.
5. *Vivahanikautumbicsambadh(2009):PharakadeTriveni,GongoSulabha,VidyaPrakashan, Nagpur.*
6. SmartS.andSmartM. S.(1980):Families-developingrelationship,McmillanP

HSC-243-MNT CONSUMER STUDIES

Course Objectives:

To enable students to –

1. Be aware of the consumer problem in the market
2. Become aware of the rights and responsibilities of consumer
3. Realize the importance of the effective role of consumers in the market
4. Develop good buy man ship skill in the selection of goods in the market
5. Be aware of consumer protective services

UNITS	CONTENTS	LECTURES
I	CONSUMER AND CONSUMER PROBLEMS Definition of a consumer Consumer movement – Introduction and Objectives Need for consumer education Consumer Problems <ul style="list-style-type: none">• Adulteration• Faulty weights and measures• Misleading advertisements• Other problems like online banking- shopping ect.	7
II	ADVERTISEMENTS AND CONSUMER GUIDES Advertisement – Definition, Influence of advertisement on consumers, usefulness of advertisement to consumers. Misleading advertising <ul style="list-style-type: none">• Brands - meaning, types of brands, advantages and disadvantages of brands• Labels – meaning and definition of labels, types of labels.• Grading and Standardization – Role of BIS, AGMARK, FPO, ECO marks, Silk mark, wool mark, Cotton mark, Handloom mark	8
III	CONSUMER DECISION MAKING PROCESS What is consumer decision – types of consumer decision (rational and irrational) Decision making process to include problem recognition, information seeking, equation of alternatives, buying decisions, post purchase evaluation.	7

	<p>Good buymanship</p> <p>CONSUMER RIGHTS AND RESPONSIBILITIES</p> <p>Consumer Rights- eight right of consumer in details</p> <p>Consumer responsibilities- critical awareness, action, social responsibilities, environmental awareness, solidarity</p>	
IV	<p>. CONSUMER PROTECTION</p> <p>What is consumer protection</p> <p>Need for consumer protection</p> <p>Consumer redressal forum-3 R'S and redressal mechanisms,</p> <p>How to provide consumer protection Act 1986 (COPRA)</p> <ul style="list-style-type: none"> ➤ MRTP Act ➤ Food Adulteration Act ➤ Essential Commodities Act ➤ Packaged Commodities Act <p>Weights and Measures Act</p> <ul style="list-style-type: none"> • Agencies CFBP, CERS, CGSI 	8

HSC-244-MNP CONSUMER STUDIES

1. Identify 5 consumer problems related to food adulteration/ faulty weights and measures/ sales gimmicks. Interview a consumer who has faced some problem related to any one of the areas mentioned above, in the market and document the same.
2. Presentation of the report
3. Collect 5 samples for labels from various products such as food/ medicines/cosmetics/clothing.
4. Write a detailed report regarding the information given to the Consumers through these labels followed by a discussion in the class regarding the positive and negative points of the labels.
5. Collect 5 samples various brands
6. Advertisements from any media like Television/ radio / print media and write a detailed report followed by a discussion in the class.
7. Observe how decision making process is used, in your own family for the purchase of some consumer product like refrigerator/television/ food processor/ washing machine and write a report
8. Procedure for Redressal for a consumer problem
9. A written report on Role of Consumer Agencies like CGSI/ CERC/CFBP in consumer protection.

References:

- 1 Ahuja B.N. & Chhabra S.S. (1989) : Advertising, Surjeet Publication, Delhi
- 2 Chunawalla S.A. (200): Commentary on Consumer Behaviour, Himalaya Publishing House,Mumbai.
- 3 Gulshan S.S. (1994) : Consumer Protection and Satisfaction, Wiley Eastern Ltd, Mumbai
- 4 Kumar N (1999): Consumer Protection In India, Himalaya Publishing House,Mumbai.
- 5 Mishra M.N. (1995): Sales Promotion and Advertising management, Himalaya Publishing House,Mumbai.
- 6 Rath S.N. (1985): Prevention of food adulteration and the Law, Deep and Deep Publications, NewDelhi.
- 7 Sherlikar S.A.: Marketing and Salesmanship, Himalaya Publishing House,Mumbai.
- 8 Sherlikar S.A.: Trade Practise and Consumer protection, Himalaya Publishing House,Mumbai.

- 9 Tiredkar K.N. and Sablok S.N. : Advertising, Vipul Prakashan, Mumbai
- 10 Varkey V.O.: Handbook on Marketing, Everest Publishing House,Mumbai.
- 11 Himachalan D. (1998): Consumer Protection And Law, APH Publishing Corporation, NewDelhi.
- 12 Javadekar P. (1994) : Grahak Savrakshan KJayda, Unmesh prakasthan, Pune
- 13 Azmi S.S.H. (1992): Sale of goods and consumer protection in India, Deep and Deep Publications, NewDelhi.
- 14 Antony M.J. (1990): Consumer Rights, Hnd Pocket Books Pvt.Ltd, NewDelhi.
- 15 Consumer Laws (1985): Consumer Guidance Society Of India, Bombay.
- 16 Loudon David L. (1993): Consumer Behaviour: Concepts and applications, McGraw Hill Inc., NewYork.
- 17 Fetterman E. et al (1976): Consumer educaton in practice, John Wiley and sons, NewYork.
- 18 Mehta S.C. (1993): Indian Consumers – Studies and cases for marketing decisions, Tata McGraw Hill Pub., NewDelhi.
- 19 Garman E.Thomas et al. (1974) : The consumer's world- Buying, money management and issues, McGraw Hill Book Co. NewYork
- 20 Schiffman L. (2000): Consumer Behaviour, Prentice Hall Of India Pvt. Ltd., NewDelhi.

OE-201-HSC-T MARRIAGE AND FAMILY STUDIES

Course Objectives:

1. To sensitize the students towards marriage and family.
2. To understand the traditional and changing norms of the institution of the family with reference to its social environment.
3. To get familiar with the concept to marriage and Planned Parenthood and the areas of adjustment within the family.
4. To become aware of problems in family and way of coping.

UNITS	CONTENTS	LECTURES
I	Introduction Introduction of “Marriage and Family” as an institution and its importance. Meaning of traditional marriage and its functions Goals of modern marriage	07
II	Marriage Pre-marital Involvement, Marriage counseling; Premarital and postmarital counseling Mate selection: Guidelines for mate selection, Modes of mate selection, factors in self-choice and arranged marriage Engagement: Meaning, importance and functions of engagement, Broken engagement: causes, ways of coping. Wedding and Honeymoon Wedding: Traditional and Court Marriage Honeymoon: Values of honeymoon, Significance of honeymoon	08
III	Family Definition and types, functions of family Family life cycle and developmental tasks, adjustments within family areas and patterns. Alternate family patterns - causes, characteristics and implications. Family crisis: Types of crisis and ways of coping.	07
IV	Parenthood Concept and significance of planned parenthood Pleasures and hazards of parenthood Family planning methods: advantages and disadvantages	08

References :

- 1.HenslinJ.M.(ed)(1989):Marriageandfamilyinchangingsociety.Thefree preasU.S.A.
- 2.DurallE.M.(1977):Marriageand familydevelopmentLippincottco.philadelphia.
- 3.DyerE.D. (1983):Courtship,Marriageand family,Americanstyle,TheDorseypress-Illians.
- 4.Blood,RobertandWolfe(1960):Husbandand wifedynamicsandmarriedlife:Freepress,Newyork.
- 5.*Vivahanikautumbicsambadh(2009):PharakadeTriveni,GongoSulabha,VidyaPrakashan, Nagpur.*
- 6.SmartS.andSmartM. S.(1980):Families-developingrelationship,McmillanP

TC-251-IKS HISTORY OF FASHION

Course Objectives:

1. To provide an overview of history of costume from ancient civilization to the present
2. To explain the socio-cultural factors influencing costume
3. To explain the influence of industrial revolution on fashion industry.
4. To discuss the evolution of modern Indian fashion

UNITS	CONTENTS	LECTURES
I	What is Fashion? Fashion Retrospect Fashion Cycle Fashion Leaders and Followers Fashion Theories	07
II	Classification of Fashion Factors influencing fashion Principles of fashion	08
III	History of Textiles of India History of Fashion in India	07
IV	Overview of clothing & Clothing cultures The Roman period Gothic Period Egyptian Period The Byzantine Period Greek Period Russian Influence French Historic Costumes	08

References:

1. Alkazi, R. (2011). Ancient Indian Costumes. Art Heritage Biswas, A.(2017).
2. Indian Costumes. Publication Division, Ministry of Information and Broadcasting. Cosgrave, B. (2001).
The Complete History of Costumes and Fashion. Facts on File Publisher. Laver, J. (2002).
3. Costume and Fashion. Thames & Hudson. Peacock, J. (1991).
4. The Chronicle of Western costume: from the ancient world to the late twentieth century. Thames & Hudson Racinet, A. (1987).
5. Racinet's Full-Color Pictorial History of Western Costume: With 92 Plates Showing Over 950 Authentic Costumes from the Middle Ages to 1800.
6. History of fashion, Manmeet Sodhia, Kalyani Publishers.(2009)

SEMESTER IV

TC-251-MJT TEXTILE CHEMISTRY

UNITS	CONTENTS	LECTURES
I	Spinning Polymerization Chemical spinning Bi-component and bi-constituent fibers.	07
II	Classification of finishes Definitions and uses of following finishes – <ul style="list-style-type: none"> ◆ Basic routine finish – Tentering, Mercerization, Calendaring or Pressing. ◆ Special finishes - Carbonizing, Weighting, Deguming. ◆ Finishes for appearance, hand & performance- Heat setting, Embossing surfaces, Napping. ◆ Softening finishes ◆ Optical finishes- Delustering, Brightening 	08
III	Special finishes to improve performance of fabrics- Antistatic finish, Durable press finish, Flame Retardant finish, Moth proofing finish, Stain -& Soil Resistant finish, Water –Repellent & Waterproof finish	07
IV	Classification of dyes □□ Stages of dyeing □□ Printing methods and style	08
	Practical	
1.	Introduction to Chemical Processing	
2.	Singeing	
3.	De-sizing	
4.	Scouring	
5.	Bleaching	
6.	Mercerization	

Preparation of fabric for dyeing and printing: • Scouring • Bleaching •Desizing at cottage level

References:

1. Collier Billie & Epps, Helen - Textile Testing and Analysis, Upper Saddle River, Merrill Publishing, 1999
2. Corbman – Textiles: Fibres to Fabrics, 6Th EDITION, New York: McGraw Hill Book Co., 1983.

3. Gohl Vilensky – Textile Science, Melbourne: Loagman Cheshire Pvt. Ltd., 1983.
4. Hall A. J. – A Handbook of Textiles finishing, 6th rev. edition, London, ELBS, 1965.
5. Hess K.P. – Textiles Fibers and their use 6th edition, Calcutta: Oxford & IBH Pub. Co., 1966.
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7. Joseph M. – Introductory Textile Science, 6th Ed., Fort Worth Harcourt Brace Jovanovich College Publishers., 1993.
8. Joseph M. – Essentials of Textile Science, 4th Ed, Fort Worth Harcourt Brace Jovanovich College Publishers., 1988.
9. Kadolph, Langford, Hollen Saddler – Textiles, 16th edition, New York, Macmillan Publishing Co, 1988.
10. Marsh J. T. – Introduction to Textile Finishes. B. I. Publication Pvt. Ltd.
11. Marsh J. T. – Textile Science – An Introductory manual. B. I. Publication Pvt. Ltd.
12. Moncrieff R. W. – Manmade Fibers. (6th Edition), London, Newnes – Butterworth.
13. Parikh J.G. – Man-made fibers Cellulose and synthetic, 2nd Edition, Bombay, SASMIRA, 1976.
14. Prayag R. S. – Finishes. Dharwad 1990.
15. Skinkle J.H. – Textile Testing. 2nd Ed. Bombay – D.B. Taraporewala Sons & Company, 1972.
16. Tortora – Understanding Textiles. 4th Ed., New York Macmillan Publishing Company, 1992.
17. Stout E.E. – Introduction to Textiles. New York, John Wiley & Sons, Inc., 1970.
18. Vaidya A. A. – Production of Synthetic Fibers. New Delhi – Prentice Hall of India Pvt. Ltd.
19. Various Journal Issues of Man-made Textiles to be referred.
20. Wingate Isabel – Textile Fabrics and their selection, New Jersey, Prentice Hall Inc, 1976.
21. Wyenn (1997) – Textiles – Motivate series, London, Macmillan Education, Ltd.

HSC-252-MJT – WET PROCESSING

Course Objectives :

- To improve Knowledge of textile and garments wet processing.
- To introduce students to various chemicals, dye and auxiliaries used in chemical processing.
- To improve the knowledge of textile coloring and various dyeing methods to the students.
- To bring an awareness on the industrial techniques of dyeing.

Units	Contents	Lectures
I	<ul style="list-style-type: none">• wet processing: Introduction1. Introduction of dye and pigments, dye fixers & mordents2. Difference between dye and pigments3. Study of Auxiliaries used for dyeing and printing	07
II	<ul style="list-style-type: none">• Dye: Classification of Dye1. Natural and Synthetic2. Types of dyes and their application in various Fabrics.	
III	<ul style="list-style-type: none">• Methods of dyeing : <p>Stock, yarn, Skein, package, Beam, piece, union & cross dyeing, garments dyeing, solution dyeing.</p> <ul style="list-style-type: none">• Common Dyeing Defects and their remedy	
IV	<p>Printing :</p> <ul style="list-style-type: none">• Definition, Printing Paste Ingredients• Difference between dyeing and printing• Methods of printing : <p>Block, stencil, Roller, Screen, Rotary screen, Transfer , Digital,</p> <ul style="list-style-type: none">• Style of dyeing : <p>Direct, Resist, Discharge</p>	

References :

1. Cockett, B. R. (1964) : Dyeing and printing, London, Sir Issac Pitman and sons Ltd.
2. Gohl and Vilensky (1987) : Textile science, Delhi, BCS Publishers and Distributors.
3. Grossicki, Watson's (1975) : Textile design and colour, Butterworth and company.

4. Pandit Savitri and Patel Saroj (1970) : Tie and dye and Batik techniques for all, Baroda, Faculty of Home Science.
5. Shenai V. A. (1973) : Chemistry of Dyes and principles of Dyeing, Ahmedabad, Textile Book Sellers and publishers.
6. Shenai V. A. (1977) : Technology of Dyeing, Technology of Textile processing. Vol. VI. Bombay Sevak Publication.
7. Story Joyce (1974) : The Thames and Hudson, Manual of Textile Printing, London, Thames and Hudson Ltd. 8) Story Joyce (1979) : Manual of dyes and fabrics, London, Thames and Hudson Ltd.
8. Rutt-Anna Hond (1969) : Home furnishing, New Delhi, Willey Eastern Pvt. Ltd.
9. Clarke, W. (1977) : Dyeing and printing, London Sir Isaac Pitman and Sons Ltd.
10. History of Indian Textiles, Ahmedabad, Calico Museum of Textiles
11. Andrea Mcnamara, Patrik Snelling (1995) : Design and practice for printed textiles, Australia, Oxford University Press.

PRACTICAL-II

UNITS	CONTENTS	LECTURES
I	<ul style="list-style-type: none">• Pretreatments of dyeing<ol style="list-style-type: none">1. Desizing of Cotton fabric2. Degumming of the silk fabric3. Scouring of cotton fabric by Sodium Hydroxide4. Bleaching of the cotton fabric by Hydrogen Peroxide	08
I	<ul style="list-style-type: none">• Dyeing & its Style<ol style="list-style-type: none">1. Dyeing of cotton with direct Dyes2. Dyeing of wool with reactive dyes3. Dyeing of cotton fabric with different Natural dye	07
III	<ul style="list-style-type: none">• Tie and dye Techniques of cotton fabric<ol style="list-style-type: none">1. Marbling2. Spiral3. Pleating4. Knotting5. Circle6. Ovals7. Stitch8. Spider	08
IV	Printing : <ol style="list-style-type: none">1. printing of cotton fabric with block printing2. Printing of cotton fabric using Stencil3. Printing of cotton fabric with Screen Printing4. Batik Print on the cotton fabric	07

VSC- 272 TRADITIONAL EMBROIDERIES OF INDIA II

1. Introduction of Origin, Significance, Tools, Materials, Stitches, Motifs, Colors, and Products Used in traditional Indian embroideries. (North & South India)

- Kashida of Kashmir
- Chikankari of Uttar Pradesh
- Phulkari of Punjab
- Chamba Rumal of Himachal Pradesh

Kasuti of Karnataka

2. Introduction of Origin, Significance, Tools, Materials, Stitches, Motifs, Colors, and Products Used in traditional Indian embroideries. (East & West India)

- Kantha of Bengal
- Gold & Silver Metal embroidery (Zari & zardozi)
- Embroidery of Gujarat
- Manipuri of Manipur.
- Applique of Orissa & Pipli

References:

1. Brij Bhushan Jamila – Costumes and Textiles of India, D B Taraporewala and Sons, 1958.
2. Chattopadhyaya Kamaladevi – Carpets & Floor covering of India, Secretary of Indian Council for Cultural relations, New Delhi. D. B. Taraporewala & Sons Co. Pvt. Ltd., 1976.
3. Chattopadhyaya Kamaladevi – Handicrafts of India, Secretary of Indian Council for Cultural relations, New Delhi. D. B. Taraporewala & Sons Co. Pvt. Ltd., 1976.
4. Desai Chelna – Ikat Textiles of India, San Francisco, Chronicle Books, 1987
5. Dongerkery Kamala – Romance of Indian Embroidery, Thaker and Co. Ltd
6. Garewal Neelam– Needlelore, Delhi, Ajanta Publishing, 1988.
7. Irwin & Hall – Indian Embroidery, Calico Museum of Textiles.
8. Jasleen Dhamija and Jay Jyotindra – “Hand woven Fabrics of India.” Ahmedabad, Mopin Publishing, 1991.
9. Joshi Indira – Kasuti of Karnataka, Popular Prakashan, Mumbai, 1963.
10. Kapur Chishti & Amba Sanyal – Saris of India, Madhya Pradesh, RTA, New Delhi: Wiley Eastern Ltd., 1989.
11. Kirloskar Ahilya – Karnataki Kashida, Pune, Pushpa Barkhe, 1991.
12. Kothari Gulab – Colourful Textiles of Rajasthan, Jaipur, Jaipur Printers, 1995.
13. Lynton Linda– The sari-style – patterns – History – Techniques, London : Thames & Hudson , 1995.

14. Marg Publication – Textiles and Embroideries of India, Bombay, Marg Publication, 1962.
15. Mehta Rustam J. – Handicrafts of India Taraporewalla house of Books, Bombay.
16. Mehta Rustom J. – Masterpieces of Indian Textiles, Taraporewala House of Books, Bombay.
17. Murphy V. & Crill R.- Tie & Dye Textiles of India, Victoria Albert Museum, London, 1991.
18. Naik Shailja –Traditional Embroidery of India, New Delhi, A P H Publishing Co, 1997.
19. Pandit Savitri – Indian Embroidery, Jaymudra, Baroda.

HSC-291-MNT EARLY CHILDHOOD CARE AND EDUCATION

Course Objectives:

1. Develop and understand the need and importance of early childhood education.
2. Develop and understand curricular planning.
3. Learn various skills required for conducting developmentally appropriate program for children.
4. Gain insight into the organization and management of a preschool center.

UNITS	CONTENTS	LECTURES
I	Introduction Meaning, Importance and Objectives of ECE Organization of Preschool Centers: different types of preschool, physical setup, equipments-importance, selection & care Maintaining records and reports and its importance	07
II	Contribution of Child Educators and Programme planning Maria Montessori, Froebel Rousseau, Tarabai Modak, Ravindranath Tagore, Mahatma Gandhi, Learning through play Play meaning, values, types, stages, play-way method	08
III	Components of ECE programme Child directed and Teacher directed activities need and values. Long term and short term planning Creative activities-painting, cutting and pasting, blocks sand play, water play, clay modeling-values and role of teacher of teacher Language activities-Types and methods 1.Songs 2.stories 3.Puzzles 4.Internal Talk 5.ObjectTalk 6.Selection of songs and stories for preschoolers. Science activities, Importance and Types, Role of Teacher Social Studies-Importance and activities and celebration of festivals Mathematics and R.S. Types of activities	07

IV	Working with parents and guiding children Importance of Parental Involvement and ways of parental involvement. Guiding children in Daily situation : Feeling of Insecurity and Hostility.	08
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HSC-292-MNP EARLY CHILDHOOD CARE AND EDUCATION

1. Observation of Nursery school and writing a report.
2. Creative a craft activities-Different types of drawing, Different types of painting. Finger painting
Modeling, Tearing, cutting and collage making
3. Threading and Lacing-
4. Language Activities pictures book, Collection of objects
5. Story telling techniques. Preparing and telling a story
6. Science-Listing of science experiences
7. Mathematics-Preparing kit on premathematical concepts
8. Music and movement-Collection of songs (i.e. Marathi, Hindi, English) • Singing songs in right
tune and pitch.
9. Making musical instrument
10. Readiness Activities-Reading readinessactivities(Matchingsets visualdiscriminationcards, Work pages
etc.)
11. Writing Read inessactivities(PencilFunGames,SimpletoComplex activities).
12. Games:IndoorandOutdoor.

References:

1. SkipperWitherspoon(1987)GoodSchoolsforyoungchildren,Macmillan Publishing co,
Newyork.
2. ReadK.(1967)TheNurseryschoolOxford IBHPublishingco,Dales.
3. Kulkarni S. (1998) Parent Education, Perspective and Approaches, Rawat
Publication, Jaipur.
4. Brewer:EarlyChildhoodEducation.
5. DesaiAnupama,VinitaApate-Learningthroughenvironment.
6. SpodekB.(1973)Early ChildhoodEducation.PrenticeHall,NewJers

HSC-293-MNT EVENT MANAGEMENT

Course Objectives:

1. Students will learn and understand the basic things in event management
2. Students will get knowledge about concept and design of the event
3. Students will learn the feasibility in event planning
4. Students will get acquainted about event marketing
5. Students will learn to know various human resource functions in event management
6. Students will learn various methods for event promotion and media functions
7. Students will learn the budgeting and to write the event proposals and event project

UNITS	CONTENTS	LECTURES
I	Introduction to Event Management: Events Defined, meaning & size of events, types of events, Importance & scope, qualities of an event manager	6
II	Concept & Design: 5 C's of events Developing the concept- Planning, controlling, organizing, evaluation Designing the events Staging - Choosing the event sight, Developing the theme, Conducting the rehearsals, Providing services, Arranging catering Protocol – Titles, Dress for formal occasions, protocol for speakers	8
III	EVENT MARKETING: Introduction to Event Marketing Nature of Event Marketing Process of Event Marketing The marketing Mix sponsorship	8

	Keys to Success, The SWOT Analysis	
IV	Promotion & Media: Purpose of promotion Use of different media – Print media, Networking Components, Radio, T.V, Internet, cable, Outdoor media, sponsorships at venues Factors to make promotion effective, solidarity. Event Proposal & Project Preparing the event Budget	8

References :

1. Sanjaya singh Gaur, Sanjay V. Saggere, Event marketing & mgmt, Frank Bros & CO
2. Getz D Cognizant, Event Mgmt & Event Tourism,
3. Communication Corporation
4. Raguda, Media & Communications Mgmt, Himalaya Publishing House
5. Gold Blatt, Best Practices in Modern Event mgmt
6. Dr. C.B. Memoria, Best Practices in Modern Event mgmt
7. Watt D. Longman, Leisure & Tourism Events Mgmt & Organizational Mgmt
8. Weaver D.John, Tourism Mgmt, Wiley & Sons
9. J.M. Mathe, Hospitality marketing & management, Avishkar Publications

HSC-294-MNP EVENT MANAGEMENT

1. Topic/ content Analysis
2. Planning & Evaluation for organizing sp. Events new year celebrations, birthday parties or any types of celebration.
3. Preparation & budget
4. Promotion
5. A study on marketing of any festival for advertisement.
6. Advertising for any event.
7. Selection of media and presentation skills Visit to hotel, fair any intuitions.
8. Exercise on interpersonal skill & communication. Preparation of communication management for any event.
9. Decoration for special event.
10. Staging- choosing the event site, conducting the rehearsals, providing services, titles of the shows, Dress for formal occasion, protocol for speakers.

OE-251-HSC-P MARRIAGE AND FAMILY STUDIES

Course Objectives:

1. To sensitize the students towards marriage and family.
2. To understand the traditional and changing norms of the institution of the family with reference to its social environment.
3. To get familiar with the concept of marriage and Planned Parenthood and the areas of adjustment within the family.
4. To become aware of problems in family and way of coping.

CONTENTS-

1. Survey on any one of the following topics
2. Mate selection criteria
3. Changing roles of family members
4. Pre-marital preparation by youth
5. Critical qualitative analysis of Film-Serial/Advertisement on "Marriage Ceremony"
6. Workshop on Family Planning methods by Gynecologist & report writing.
7. Workshop on premarital counseling & report writing.
8. Visit to family counseling center or matrimony center.
9. Skit presentation on Family crisis.

References:

1. Henslin J.M. (ed) (1989): Marriage and family in changing society. The Free Press U.S.A.
2. Durrall E.M. (1977): Marriage and family development Lippincott Co. Philadelphia.
3. Dyer E.D. (1983): Courtship, Marriage and family, American style, The Dorsey Press-Illians.
4. Blood, Robert and Wolfe (1960): Husband and wife dynamics and married life: Free Press, New York.
5. *Vivahanika utumbica sambadh* (2009): Pharakade Triveni, Gongo Sulabha, Vidya Prakashan, Nagpur.
6. Smart S. and Smart M. S. (1980): Families-developing relationship, Mcmillan P

SEC-251-HSC-P TEACHING AIDS IN HOME SCIENCE EXTENSION EDUCATION

Need Assessments of Community

1. Assessing prevailing conditions of community focusing on aspects such as Health, Population, Housing, Education, Sanitation, etc.
2. Compilation of data collected utilizing it for preparing Preparation of questionnaire
3. Conduct a survey on different current issues of community
4. Analysis of information about conducting survey (Group discussion)

Community Contact Methods

1. Preparation of Graphic Aids- Posters, Charts, Leaflets etc. for selected target group.
2. Preparation of suitable communication aids for individual contact
3. Preparation of suitable communication aids for group contact
4. Preparation of suitable communication aids for mass contact
5. Enlist different traditional medias
6. Enlist modern media

Technology-Based Aids:

1. Interactive Whiteboards:
 2. These devices allow for interactive learning and can be used to present multimedia content, engage students in group activities, and facilitate discussions.
3. Educational Apps:
 4. Apps can provide interactive lessons, games, and quizzes, making learning more enjoyable and effective.
5. Virtual Reality:
 6. Virtual reality can simulate real-life scenarios, such as field trips to historical sites or demonstrations of complex concepts.
7. Multimedia Projectors:
 8. Projectors can be used to display a variety of materials, including videos, presentations, and interactive simulations.

TC- 281- CEP COMMUNITY ENGAGEMENT PROGRAM

Course Objectives:

- 1.To enable students to apply Textile and Clothing concepts for the benefit of local communities
- 2.To promote awareness about proper Clothing,for all age group
- 3.To develop skills in communication, teamwork, leadership, and public outreach
- 4.To bridge the gap between classroom learning and real-world community problems

1. Orientation & Planning 15L

- Importance of clothing outreach and 2.Training in communication skills, ethics, and safety.
- 3.Team formation and selection of target community/topic.

2. Community Engagement Activities 15L

Students (in groups) will carry out one or more of the following:

- 1.Awareness campaign Leftover Clothing ,Garment Ornament
 - 2.Traning for Self help group on Block printing and Tie and Dye
- To become a entrepreneur

Planning + Reporting 15L

Designing posters, pamphlets, or short videos for awareness

Demonstrations using posters, models, videos, or hands-on activities

Distribution of pamphlets created by students.

Interaction with schools, self-help groups, Anganwadi and

Group discussions with community members

Documentation & Presentation 15L

- 1.Maintain logbooks or field diaries.
- 2.Collect community feedback and summarize outcomes.
3. Final group report submission.
- 4.Oral/poster/ppt presentation of experiences and impact.

Rules for CEP Work:

1. Group Formation and Size: Students will be assigned to groups based on the project theme. Each group should consist of a minimum of 4 students and a maximum of 6 students,

depending on the nature and scope of the project.

2. Community Engagement Work Requirement: Each group must complete 7 full days or 15 part-time days of active community engagement work. Students must submit certificates of completion or photographic evidence in the final report if the fieldwork is conducted at a recognised institution or organisation.

3. Project Report Submission: Students must submit a printed and bound report with a minimum of 5,000 words. The report should be neatly organised and include charts, graphs, photographs, maps, and other relevant illustrations.

4. Role and Responsibility Documentation: The methodology section of the report must clearly outline the roles and responsibilities undertaken by each group member during the project.

Sample Community Engagement

Themes for Textile and Clothing

1. Awareness campaign Leftover Clothing ,Garment Ornament

2. Training for Self help group on Block printing and Tie and Dye

To become an entrepreneur

Evaluation Scheme:

Internal Evaluation (15 Marks)

Parameter Marks

Area/Topic Selection 5

Regular Fieldwork and Follow-up 10

External Evaluation (35 Marks)

Parameter Marks

Project Report 15

Logbook/Record Book 10

Viva-Voce (Oral Examination) 10