

UNIVERSITY OF NIGERIA, NSUKKA

FACULTY OF AGRICULTURE

DEPARTMENT OF HOME SCIENCE AND MANAGEMENT

**POSTGRADUATE DIPLOMA (PGD), MASTERS OF SCIENCE (M.Sc.) & DOCTOR
OF PHILOSOPHY (Ph.D.) PROGRAMME**

IN

HOME SCIENCE AND MANAGEMENT

LIST OF APPROVED SUPERVISORS

SENIOR LECTURERS

C.I. Iloeje B.Sc., M.Ed. M.Ed., Ph.D. (Nig.)	<i>Home Economics (Clothing and Textiles)</i>
B.O. Mbah B.Sc. (Texas A&M USA) PGDE, M.Sc., Ph.D (Nig)	<i>Community Nutrition and Public Health.</i>
S.U Ozougwu TC11, NCE, BSc/Ed, M.Ed. Ph.D (Nig.)	<i>Home Economics (Clothing and Textiles)</i>
E.B Oluah B.Sc/Ed.MEd, Ph.D. (Nig.)	<i>Home Economics (Clothing and Textiles)</i>
N.G Onyeke B.Sc/Ed., M.Sc., Ph.D (Nig.)	<i>Home Economics, Experimental Nutrition and Product Development</i>
G.I. Davidson B.Sc., M.Sc., Ph.D. (Nig.)	<i>Human Nutrition, Community Nutrition</i>
F.O. Okechukwu B.Sc. /Ed, M.Ed., Ph.D.	<i>Home Economics, Child Development and Family Studies.</i>
N.P. Owoh B.Sc. /Ed. (Ibadan), M.Ed.(Nig.) Ph.D (Ebonyi)	<i>Home Economics(Home Management)</i>

UNIVERSITY OF NIGERIA, NSUKKA

PGD, M.Sc. AND Ph.D. PROGRAMMES IN HOME SCIENCE AND MANAGEMENT

PHILOSOPHY

The philosophy of the postgraduate diploma in Home Science is to provide postgraduate training in Home Science for candidates with degree in Agriculture and Sciences or Higher National Diploma (HND) graduates. It is also designed for recent graduates of Home Science/Home Economics who otherwise would not qualify for direct admission into Master's Degree programmes in the Department. The philosophy of Home Science therefore is to develop high level man power to pursue careers in academics and research and to provide advanced professional training for upgrading knowledge and skills of Bachelors (Honors) degree holders employed in industry, the public service or those in self-employment. The programmes in Home Science were designed to develop high level manpower to pursue careers in academics and research. It is to provide the highest degree of specialization in a particular field in the context of expanding knowledge globally and solving real life problems.

OBJECTIVES

- A.** The Postgraduate Diploma in Home Science and Management is aimed at:
- a. The Postgraduate Diploma in Home Science is aimed at:
 - b. Producing persons with advanced knowledge and skills in Home Science.
 - c. Exposing non-Home Science professionals to knowledge, skills and practice in Home Science.
 - d. Provide training in specific aspects of Home Science.
- B.** The Master of Science Degree in Home Science and Management Degree Programme is aimed at:
- a) Exposing students to advanced courses in relevant areas of Home Science and other academic disciplines.
 - b) Equipping students with research skills through the conduct of supervised research, seminar presentations and dissertation preparations and reports.
 - c) Providing advanced professional training for graduate employees in industry, the public service or those in self-employment.
 - d) Preparing men and women who would operate as administrators, policy makers for international, federal and state public agencies as well as academic institutions and research organizations.
- C.** The Doctor of Philosophy (Ph.D) Programme in Home Science is aimed at:

- a. Equipping students with research skills through the conduct of supervised research, seminar presentations and thesis preparation.
- b. Providing training for those whose future careers lie in teaching and research at the tertiary level and in research and development in the public and private sectors

ADMISSION REQUIREMENTS

A. Candidates seeking admission for Postgraduate Diploma in Home Science must have any of the following qualifications from recognized institutions:

(a) Higher National Diploma in Home Science/Economics or relevant fields with a minimum of upper Credit.

(b) Minimum of Pass Degree at Bachelor's level in Agriculture with a minimum of 2.0 GPA.

(c) Pass in Higher National Diploma plus ten (10) years cognate experience.

B. Candidates seeking admission for the Master of Science Programme in Home Science must have any of the following qualifications from recognized institutions:

a) Bachelor's degree in Home Science or related discipline with a minimum of Second Class Lower Division

b) Bachelor's degree in Home Science or related discipline with 3rd class degree divisions plus PGD passed at credit level.

c) HND Upper Credit plus PGD at credit level pass in addition to satisfying University matriculation requirements.

C. Candidates seeking admission into Doctor of Philosophy (Ph.D) Programme or firm registration in Home Science must have Master's degree in Home Science/Home Economics or related discipline from recognized institutions with minimum GPA of 3.5 or 60% without failed courses, whereas students with an average of 50% with outstanding course(s) will retake them and as well proceed to their Doctorate programme. Students with an average less than 50% will retake the entire courses.

MODE OF STUDY

The mode of study is by course work, seminars and project report/dissertation/thesis.

DURATION

- A.** The Postgraduate Diploma Programme shall run for a minimum duration of two (2) semesters and maximum of four (4) semesters.
- a) The Full-time Master of Home Science Programme shall run for a minimum duration of three (3) semesters and maximum of six (6) semesters.
 - b) The Part-time Master of Science Programme shall run for a minimum duration of four (4) semesters and maximum of eight (8) semesters

i) Requirements for Graduation

The programme consists of coursework, dissertations and seminars. To be awarded the Master of Science in Home Science, a candidate must have passed a minimum of 39 Credit Units with a minimum GPA of 3.0.

(i) Duration of Doctor of Philosophy Programmes

- (a) The Full-Time Doctor of Philosophy Programme shall run for a minimum duration of Six(6) semesters and maximum of Ten (10) semesters
- (b) The Part-time Doctor of Philosophy Programme shall run for a minimum duration of Eight (8) semesters and maximum of Twelve (12) semesters
- (c) The full-time Masters/PhD programme shall run for a minimum duration of Eight (8) semesters and maximum of Twelve (12) semesters.
- (d) The Part-time Masters/PhD programme shall run for a minimum of Ten (10) semesters and a maximum of Fourteen (14) semesters.

(ii) Graduation Requirements

The programme consists of course work, project work and seminars. To be awarded the Doctor of Philosophy in Home Science, a candidate must have fulfilled the following conditions:

- (a) Passed a minimum of 42 Credit Units, as follows:

- B.** The Full-Time Doctor of Philosophy Degree Programme shall run for a minimum duration of four(4) semesters and maximum of six (6) semesters

The Part-time Doctor of Philosophy Degree Programme shall run for a minimum duration of six (6) semesters and maximum of eight (8) semesters.

EMPLOYMENT OPPORTUNITIES

Holders of the postgraduate diploma in Home Science are also expected to attain a level of self-reliance. They can work in different arms of the public and private sectors as Home Science Educators, Home Scientists in Journalism (Radio and Television), Home Science Entrepreneurs, Home Scientists in Consultancy Services, Homemaker, Extension Home

Scientists, Home Scientists in Research, Commercial Food Service Managers, Clothing Designers, Interior Decorators, Home Scientist in Textile Industries, Family/Marriage Counselors and Childcare Specialists.

GRADUATION REQUIREMENTS/SCOPE

Requirement for Graduation:

A. To be awarded Post graduate Diploma in Home Science, a candidate must have fulfilled the following conditions:

a) Passed a minimum of 24 Credit Units as follows

Course	Units
Core courses	12
Electives	9
Projects	4
Total	25

b) Carried out a research project relevant to the area of specialization

Stress Areas	Codes
Introductory/Foundational Courses	0
Child Development and Child Care	1
Home Management	2
Food and Nutrition	3
Textiles and Clothing	4
Entrepreneurship	5
Statistics	6
Computer Application	7
Seminar	8
Project	9

Course Structure

Core Courses	Units
HSc 0502 Foundations of Home Science/Economics	3
HSc 0552 Entrepreneurship	3
HSc 0564 Agricultural Statistics and Data Processing	3
HSc 0573 Computer Applications	3
HSc 0592 Project Report	4
Total	16

Electives

HSc 0503 Fundamentals of Textiles and Clothing	3
HSc 0511 Human and Child Development 1	3
HSc 0521 Principles of Resource Management	3
HSc 0523 Family Development	3

HSc 0531	General and Applied Nutrition	3
Total		15

1stSemester	Course Title	Units
HSc 0503	Fundamentals of Textiles and Clothing	3
HSc 0511	Human and Child Development 11	3
HSc 0521	Principles of Resource Management	3
Hsc 0523	Family Development	3
HSc 0531	General and Applied Nutrition	3
HSc 0573	Computer Applications	3
Total		18

2nd Semester		
HSc 0502	Foundations of Home Science/Home Economics	3
HSc 0552	Entrepreneurship	3
HSc 0564	Agricultural Statistics and Data processing	3
HSc 0582	Special Topic/Seminar	3
HSc 0592	Project Report	4
Total		16

Course Description

HSc 0502: Foundations of Home Science/Economics. (3 Units)

Definitions and goals of studying Home Science. Historical Development of Home Science, philosophy, objectives and principles. Career opportunities in Home Science including the necessary academic preparations and personal qualities required. Basic Human needs and the role of Home Science in meeting these needs. Nature of families and their needs. Stress on different areas of Home Science (Foods, Management of family resources, Child study, Clothing and textiles, Family development, e.tc

HSc 0503 Fundamentals of Textiles and Clothing (3 Units)

Textile fibers and their properties. Fibre classification-major & minor fibers, natural & man-made fibers, fibre processing methods, fibre blends, simple laboratory methods of fibre identification. Fabric construction/fabrication methods, weaving (types, History & development of industrial looms in Nig) Knitting, bonding etc. Yarn classification and uses. Fabric uses & care. Fabric furnishes. Project Textile Album. Field Trips to Textiles Industries. Clothing defined. Functions & components of clothing, Clothing accessories, Clothes for different occasions. Tools and equipment, Uses & Care of tools and equipment. Simple machine adjustments. Common stitching faults & their corrections. Machining. Basic sewing processes. Project Preparation of clothing Album (Specimen album) Construction of simple baby wear.

HSc 0511 Human and Child Development (3 Units)

Theories of human development from infancy to adulthood; Awareness and understanding of

the physical, social, emotional, and intellectual aspects of human growth and development in infancy; Child and Adolescence, early and late adulthood; influence of the family, home and community environment on personality development in a changing society; problems of pregnancy, human reproduction and conception.

HSc 0521 Principles of Resource Management (3 Units)

Theories, principles and concepts of using individual, family and community resources; identification of existing resources; values and goals in management; model for use of process; farm, home and business management and their interfaces; model for use of existing resources; resources productivity; identification of potential resources; organizing access to finance; maintenance culture in environmental and resource development.

HSc 0523 Family Development (3 Units)

Family structure: system, process and stages. Family developmental stages: their needs, demands and adjustment. Roles and functions of the family to individual, community and the nation; Family structure and economic change in the 21st century; Task differentiation in the different forms of family; Changes in roles and effects within the family and current practices; The family and external systems; Internal process and family relationships; Influence of the nature of family on children; Impact of urban and rural setting on families and their members.

HSc 0531 General and Applied Nutrition (3 Units)

Nutritive value of tropical foods and Nigerian diets; Adequacy of food supply; selection and formulation of adequate diet. Enrichment, supplementation, complementation, fortification; Food habits, control of appetite; Nutritional needs of children, pregnant and lactating women, adolescents and the aged; Nutrition, infection and the immune responses; Physiology of growth, pregnancy and lactation; Nutrient requirement estimates and assessment.

HSc 0552 Entrepreneurship (3 Units)

Entrepreneur-concept development and need for entrepreneurial development; entrepreneurship growth- economic, social, cultural; personality, psychological and sociological factors affecting growth; traits for entrepreneurial development- functions and roles of women entrepreneurs, problems and strategies for solving problems; entrepreneurial project planning- steps, building plans, using CPM for action plan, resource allocation, budgeting; project implementation- organizing, controlling, launching, monitoring, evaluation; funding agencies- registration of project; filing returns and assessment; institutions for entrepreneurial training; training models and participatory management of human resources.

HSc 0564 Agricultural Statistics and Data Processing (3 Units)

Basic concepts of statistics. Empirical frequency distribution, histograms (graphic presentation). Measures of location, symbol and summation notation; mean, mode, and median. Measures of variation, range, variance, standard deviation, standard errors and coefficient of variation. Probability distribution. Population, samples and theoretical distribution, normal and binomial distributions and statistical inference. Sampling

distributions. Estimation. test of hypothesis. Two sample techniques and paired comparisons, t-tests. Approximate tests, multinomial data, binomial data, a test for goodness of fit, contingency table(s) and chi-square(x²) test. Laboratory and field experiments. Data collection and processing techniques. The completely randomized design (CRD) or one-way classification experiment. Analysis of variance (ANOVA) and tests of significance, f-tests, and t-tests. Detection of differences between treatment means using Fisher's Least Significant Difference (FLSD=LSD), Duncan's New Multiple Range Test (DNMRT), etc. The Latin Square Design OR "Three –way classification experiment". The Split-plot designs and factorial experiments. Regression and Correlation. Analysis of covariance. Revision.

HSc 0573 Computer Applications (3 Units)

Elements of programming and data base management; network analysis and its use in the different areas of Home Science/ Economics. For instance in Family and Child Studies, Family Resource /Home Management, Institutional and Personnel Management, Foods and Nutrition, Interior Decoration and Clothing and Textiles.

HSc 0592 Project Report (4 Units)

Under the supervision of a staff, students carry out simple research work in selected problem areas of interest, write and present a report in a prescribed format. This is reviewed and assessed by internal and external examiners. Duration is two semesters.

B. Graduation requirement for Master of Science in Home Science. Programme consists of coursework, dissertations and seminars. To be awarded the Master of Science in Home Science, a candidate must have fulfilled the following conditions:

- a) Passed a minimum of 39 Credit Units with a minimum GPA of 3.0. The courses are as follows:

Courses	Units
Core Courses	18
Electives	12
Project	6
Seminar	3
Total	39

- b) Carried out a research relevant to the area of specialization and submitted an acceptable dissertation.

Stress Areas	Codes
Introductory/Foundational Courses	0
Family and Child Studies	1
Home Management	2

Hospitality and Institutional Management	2
Interior Decoration and Design	2
Food and Nutrition	3
Textiles, Clothing and Fashion Design	4
Entrepreneurship	5
Statistics	6
Computer Application	7
Seminar	8
project	9

Course Structure

Core courses		Units
PGC 601	Research Methodology and Application of ICT in Research	3
HSc 603	Problems and Issues in Home Science	3
HSc 655	Entrepreneurship Development and Management	3
HSc 668	Statistics and Research Methods in Home Science	3
HSc 679	Computer Application in Home Science	3
HSc 680	Advanced Seminar in Home Science	3
HSc 690/691	Project	6
	Electives	12
Total		33

Specialized Areas Electives

i) Family and Child Studies

HSc 611	Principles and Administration of Childcare Programme	3
HSc 613	Advances in Lifespan Development	3
HSc 618	Gender Issues in Human Development and Family Studies	3
HSc 622	Advanced Resource Management	3
Total		12

ii) Home Management (Family Resource Management)

HSc 621	Marriage, Family and Consumer Guidance and Counseling	3
HSc 622	Advanced Resource Management	3
HSc 626	Household and Institutional Equipment and Management	3
HSc 628	Human Resource/Personnel Management	3
Total		12

iii) Hospitality and Institutional Management

HSc 626	Household and Institutional Equipment and Management	3
HSc 633	Food Service Systems and Administration	3
HSc 635	Advanced Food Preparation and Management	3
HSc 636	Quantity Food Production and Preparation	3
Total		12

iv)	Interior Decoration and Design	
HSc 622	Advanced Resource Management	3
HSc 625	Housing and Design	3
HSc 627	Residential and Non Residential Interior Design and Aesthetics	3
HSc 646	Household Textiles and Furnishes	3
	Total	12
v)	Food and Nutrition	
HSc 630	Product Development and Testing	3
HSc 631	Micronutrient in Human Nutrition	3
HSc 632	Macronutrient in Human Nutrition	3
HSc 637	Advanced Community Nutrition	3
	Total	12
ii)	Textile, Clothing and Fashion Design	
HSc 641	Advanced Pattern Drafting and Clothing Construction	3
HSc 644	Household Craft, Design and Preparation	3
HSc 645	Psycho-social influences of clothing, Fashion Trends and Development	3
HSc 648	Textile and Apparel Quality Analysis	3
	Total	12

Course Distribution by Semester

First Semester

A. Core Courses

Course No	Title	Unit
HSc 601	Problems and Issues in Home Science/Economics	3
HSc 655	Entrepreneurship Development and Management	3
HSc 679	Computer Applications in Home Science/Economics	3
	Total	9

B. Electives in areas of specialization

i) Family and Child Studies

HSc 611	Principles and administration of childcare programme	3
HSc 613	Advances in Lifespan Development	3
	Total	6

ii) Home Management (Management of Family Resource)

HSc 621	Marriage, Family and Consumer Guidance and Counseling	3
HSc 623	Household and Institutional Equipment and management	3
	Total	6

iii) Hospitality and Institutional Equipment		
HSc 633	Food Service Systems and Administration	3
HSc Advanced Food Preparation and Management		
Total		6
iv) Interior Decoration and Design		
HSc 625	Housing and Design	3
HSc 627	Residential Non Residential Interior Design and Aesthetic	3
Total		6
v) Food and Nutrition		
CourseNo	Title	Unit
HSc 631	Micronutrient in Human Nutrition	3
HSc 637	Advanced Community Nutrition	3
Total		6
vi) Textiles, Clothing and Fashion Design		Unit
CourseNo	Title	
HSc 641	Advanced Pattern Drafting and Clothing Construction	3
HSc 645	Psycho-social Influences of Clothing, Fashion Trends and Development	3
Total		6
Second Semester		
A. Core courses		
HSc 668	Statistics and Research Methods in Home Science	3
HSc 680	Advanced Seminar in Home Science	3
HSc690/691	Project	6
Total		12
Electives in Areas of Specialization		
i) Family and Child Studies		
HSc 618	Gender Issues in Human Development and Family Studies	3
HSc 622	Advanced Resource Management	3
Total		6

ii) Home Management (Management of Family Resource)		
HSc 622	Advanced Resource Management	3
HSc 628	Human Resource/Personnel Management	3
Total		6
iii) Hospitality and Institutional Management		
HSc 626	Institutional Equipment and Management	3
HSc 636	Quantity Food production and Preparation	3
Total		6
iv) Interior Decoration and Design		
HSc 622	Advanced Resource Management	3
HSc 646	Household Textiles and Furnishes	3
Total		6
v) Food and Nutrition		
HSc 630	Product Development and Testing	3
HSc 632	Macronutrients in Human Nutrition	3
Total		9
vi) Textile, Clothing and Fashion Design		
HSc 644	Household craft, Design and Preparation	3
HSc 648	Textile and Apparel Quality Analysis	3
Total		6

Course Description

PGC 601 Research Methodology and Application of ICT in Research (3 Units)

In-depth research aimed at acquiring full knowledge and presentation in scholarly writing of the concepts, issues, trends in the definition and development of the study area from Africa and Western perspectives. Major steps in research: Selection of problem, Literature review, Design, Data collection, analysis and interpretation, Conclusions. Study of various research designs, Historical, Case studies, Surveys, Descriptive, Cross sectional, Experimental, etc. Analysis, surveys and synthesis of conceptual and philosophical foundations of different disciplines. Identifications of research problems and development of research questions and or hypotheses. Detailed treatment of methods of collecting relevant data and the format for presenting research results (from designing the table of contents to referencing, bibliography and appendix). Data analysis and result presentation in different disciplines using appropriate analytical tools. Methods of project/dissertation writing. Application of appropriate advanced ICT tools relevant in every discipline for data gathering and result presentation. Essentials of spreadsheets, Internet technology, and internet search engines All registered Masters Degree

students must attend a solution-based interactive workshop to be organized by the School of Postgraduate studies for a practical demonstration and application of the knowledge acquired from the course conducted by selected experts.

HSc 603 Problems and Issues in Home Science (3 Units)

Current issues of interest and controversy in Home Science: the status of Home Science as a profession; gender issues in Home Science; Family goals and values; Childrearing practices; Clothing and Textiles, Foods and Nutrition etc

HSc 611 Principles and Administration of Childcare Programmes (3Units)

Childcare and child rearing practices in Nigeria; an examination of the childcare needs of Nigerian child and Nigerian families; provision of care for optimum growth and development; study of different types of childcare programmes available in Nigeria; critical look at different types of learning kits and learning materials available commercially and otherwise.

HSc 613 Advances in Lifespan Development (3 Units)

Features a life-span scope from conception to death. Development throughout life in three broad areas will be considered. Physical genetic foundations of development and developmental changes in neurological functioning, sensation and perception, physical structure, reproductive functioning and characteristics and health. Cognitive-: including intellectual development, achievement and information processing. Social/Personality-: including developmental stages, cultural and social class influences family and peers, emotional and mental health phenomena, career and work, and marriage and family.

HSc 614 Early Childhood Education and Organization (3 Units)

Early Childhood Education, Importance of child early years, Early childhood education - :meaning, scope, significance, goals and objectives. Historical perspective of early childhood care and education,- How young children learn, definition of learning and teaching, learning approaches, creating an effective learning environment in the classroom and the role of the teacher in promoting learning in young children. Play and its importance, play and its characteristics, theories of play, stages and types of play, role of play in overall development of children, teachers' role, use of play way approach in the curriculum for young children. Institutions of early childhood care and education-: day-care centers/crèches, pre-school, kindergartens, play groups and recreational play centers, non formal pre-school education and its importance. Curriculum for young children -: definition and source of curriculum, content of curriculum. Programme for young children, importance of planning programme for young children, various teaching methods emphasizing play way method, project method, theme based approach and development of skills related to reading, writing and arithmetic. Children with special needs -: definition, classification, sensitizing teachers about children with special needs and teachers' roles in helping them. Recent developments in the field of early childhood education.

HSc 616 Creative Experience for Children (3 Units)

Meaning and importance of creativity and independence in creative expression. Variety of age appropriate media, methods, techniques and equipment for utilization. Students plan, implement and evaluate instructional activities. Roles in creativity in overall development of the child. Identification of different types of creative expressions among children, planning and implementing creative activities for children. Early childhood creative expression: setting goals, assembling materials and developing strategies for fostering it. Use of creative activities in fostering learning in other areas of study (language, science and mathematics, health and hygiene etc). Developing and using a creative environment for children:- use of media.

HSc 618 Gender Issues in Human Development and Family Studies (3 Units)

Concept of gender. Mastery of the principles of human development and an understanding of the key development task of each stage of life. Depth of understanding in one or more of the developmental stages, with particular emphasis on the family as a context for human development. Understanding of intra-family processes such as power, decision-making, and communication, mastery of family theories and conceptual frameworks such as the systems perspective, constructivist, functional and conflict theories. – Depth of understanding on the ability to analyze the internal working of the family.-Mastery of family ecological models, including principles of reciprocity and interdependence between larger contextual environments and the family, and an understanding of family policy.-Depth of understanding on comprehensive examination of the interface between the family and the various social/political/cultural environments.-Gender issues in human development - Gender issues in family studies.

HSc 621 Marriage, Family and Consumer Guidance and Counseling (3 Units)

Origin, development and the role of premarital, marital and family counseling.- Discussion with the engaged couple. Assessing maturity for marriage. Assessment of suitability for marriage and adoption of a child for foster care. The theory of selection, disposition of marriage. The use of psycho-diagnostic methods in premarital and marital counseling. Transactional analysis and its use in marital therapy.Moven's approach to marital problems. Roger's approach to marital problem.- Psychoanalytic approach. Family counseling. Divorce and after divorce therapy. Theories of guidance and counseling. Consumer education: rights and responsibilities of consumer; consumer movement; consumer protection; consumer organizations; empowering consumers; significance of consumer guidance and counseling; consumer information.Scools of Management thought. Systems approach. Systems approach to the family.

HSc 622 Advanced Resource Management (3 Units)

Application of management principles in using resources; energy management (work capacity), work space and work methods. Time management time use patterns, advantages of time management, time and activity plans; financial management at individual and family

levels concept of income management kinds of income, guidelines for money income management, budgeting guidelines and importance, financial security factors that affect financial security and methods used to ensure financial security, insurance and investment. Social policies affecting resource management.

HSc 623 Household and Institutional Equipment and Management (3 Units)

Types/classifications of Household and Institutional equipment. Cooking equipment (electric and gas heated equipment, steam heated equipment, miscellaneous small cooking equipment). Non-cooking equipment: The power operated equipment. Non-mechanical kitchen equipment; auxiliary equipment- Cooking utensils and tools, serving equipment. Installation and evaluation of equipment. Designs and selection factors. Maintenance of equipment and environment.

HSc 625 Housing and Design (3 Units)

Review of housing needs and problems of families.-Architectural design and construction; features of different architectural design. Factors involved in evaluating floor plans and blue prints. Main purpose of lighting in housing construction. Green design measures in construction, equipment, home design and landscaping Decision making process related to housing cost; lifestyle preferences, location and size. Safety and security.Careers in the housing industry.

HSc 627 Residential and Non-Residential Interior Designs and Aesthetics (3 Units)

Functional and aesthetic elements for residential interiors-: emphasis should be placed on principles and elements of design and selection and organization of furnishings, floor and wall coverings, lighting and accessories. Drafting the use of architectural tools and technical planning for residential interior design. Design of commercial interior spaces including business areas, shopping centres and halls, monuments public gardens, medical, restaurant, hospitality and environments. Students will develop skills used by the commercial interior designer including drafting, the use of architectural techniques, space planning, commercial client needs and presentation techniques specifically used in the design of commercial spaces.

HSc 628 Human Resource/Personnel Management (3 Units)

Concepts and principles of human resource management and personnel management; human resource policy, recruitment/selection, placement and promotion; motivation; learning concept and principles; interpersonal and group behavior dynamics; attitudes and job satisfaction; leadership; decision making and control; management skills; personal relations and conflict management.

HSc 630 Product Development and Testing (3 Units)

Introduction to food experimentation, selection and definition of problems, Controlling, experiments, evaluation of experiments, sensory and objective methods, planning experiments, selection of judges, types of tests, reporting and interpretation of results. Application of principles of experimental foods to recipe development and testing. Use of composite flours in recipe development.

HSc 631 Micronutrients in Human Nutrition (3 Units)

Detailed examinations of the chemistry, structures and functions of water soluble and fat soluble vitamins. Micronutrients (vitamins and minerals): sources, metabolism, deficiency and/or toxicity. Recommended daily requirements of micronutrients. Methods of assessing requirement levels in man. Mineral balance and mineral-vitamin interrelationships.

HSc 632 Macronutrients in Human Nutrition (3 Units)

Classification of fats, carbohydrates and proteins. Metabolism and biosynthesis of fats, carbohydrates and proteins. Metabolic pathways of carbohydrate, fat and protein. Regulation of glycogenesis, gluconeogenesis, glycogenolysis, lipolysis and protein synthesis. Lipid transport and storage, chylomicrons and very low density lipoproteins cholesterol. Protein and nitrogen balance. General properties of enzymes and biological oxidation.

HSc 633 Food Service Systems and Administration (3 Units)

Technical operations and management of food services; primary functions, menu planning and evaluation, forecasting, food and labour cost control, schools. Catering establishments (small and large) and hospitals; food distribution systems; Quantity food, production principles, budgeting, purchasing, convenience and sanitation; Supervision and management of personnel.

HSc 634 Practice of Nutrition (3 Units)

Methods used in nutrition surveys; anthropometry, food balance sheets, morbidity and mortality, vital statistics and clinical signs. Use of growth chart and growth monitoring. Use of food composition tables, food consumption methods and nutrient intake calculations. Planning diets for individuals and groups. Development and use of food exchange list. Diet formulation for metabolic studies, measurement of energy expenditure. Preparation of visual aids and pretesting of nutrition education tools, use of computer (graphics) in developing nutrition education tools. Measurements of body fluids, blood glucose, blood pressure.

HSc 635 Advanced Food Preparation and Management (3 Units)

Application of nutrition principles in planning, preparation and management of meals for different physiological states and conditions. Nutritional, physical and functional properties of indigenous food ingredients and their use in meal preparation. Leavening agents, Flours and flour cooking: cakes, biscuits, pastries, breads, sugar and sugar cookery crystallization,

fondants, candies and sweets. Gelatin and gelatin dishes, frozen deserts, ice cream, sherbets, mouse, perfect egg foam. Principles of food preservation, food demonstration techniques, food safety and quality soups and sauces.

HSc 636 Quantity Food Production and Preparation (3 Units)

Origin of food service in hotels and hospitals. Food selection, purchasing and storage. Institutional equipment. Menu planning. Food products and their preparation. Pastries – Equipment used in the pastry, layout of a typical pastry department. Material management -; Common items used in pastry and larder control, stoning and usage,. Importance of material control, yield testing. Bread making. Role of ingredients used in bread making. Methods of bread making. Bread varieties. International bread varieties – breakfast rolls, dinner rolls, quik breads. Bread quality analysis. Good qualities of breads, bread faults and causes. Improvers. Pastry making and their derivatives; Short crust pastry, choux pastry; puff pastry . Fillings etc. Pastry cream and it's varieties, Grenache, mousse, mousseline, e.t.c. Meringues; Making of meringues, factors affecting the stability, cooking meringues, types and uses of meringues. Icing and Toppings; Varieties of icings, uses, difference between icings and toppings, recipe. Cake making etc. Cost control in management of Hotel and Hospital. Food standards and services. Practical assignments in food production and service area. Entertainment for special occasion.

HSc 637 Advanced Community Nutrition (3 Units)

Food consumption tables, nutrient requirements and adequacy of diets of individuals and groups, food availability. Detailed methodology and application in the assessment of nutritional status of different groups in the community using established standard methods, their uses and pitfalls, - Design, implement and interpret anthropometric surveys in urban and rural settings, food balance sheets, food consumption methods, vital statistics, clinical signs, construction and use of questionnaires, choosing nutritional indicators, use of reference populations and cut-off points. Conceptual framework, nutrition services and programmes. Feeding of special groups; appraisal of nutritional problems and solutions; use of growth and development charts and growth monitoring; public health nutrition problems in urban and rural areas, income generation activities of women, community based nutrition programmes. Population and food supply. Nutrition Learning and behavior. Assessment of ecological and seasonal factors, nutrition, poverty and welfare, conceptual framework and assessment of food consumption and factors.

HSc 640 Interior Materials and Finishes (3 Units)

Materials: general properties and functionality: structural and non-structural; hard, resilient and soft characteristics. Specific systems of materials: floor, wall and ceiling systems. The relationship of material to sustainable design. The materials grouped as conventional and alternative natural materials such as wood and bamboo; stone and terrazzo, concrete and brick, plaster and vinyl, fibers and fabrics; wall coverings and carpets (nylon) glass and plastic, ceramic tiles and terra cotta etc. General information on material history, characteristics and properties, chemical composition, natural resources used/finishes, manufacturing process and energy consumption, testing methods, commercial dimensions

and waste production, colors and shapes, installation method, impact on workers' health, research findings that relate to sustainability issues, conflicting evaluations and environmental and safety concerns.

HSc 641 Advanced Pattern Drafting and Clothing Construction (3 Units)

Principles of sewing technology - stay/pad stitching, taping, application of supportive fabrics. Skills needed of a good tailor. Handling special/challenging fabrics and sewing equipment. Application of trims and decorative surfaces. Fusing technology. Criteria for evaluating well-tailored garments. Projects include construction of tailored garments such as suits and other formal, party, wedding, functional/work clothes and special clothes/apparels for the physically challenged. Safety precautions in the clothing laboratory. Principles and procedures for adapting basic patterns to various styles. Drafting and adapting patterns for different ages, groups, occasions, functions, work clothes and cloths for the elderly, physically challenged, pregnant and lactating mothers and persons having figure abnormalities.

HSc 644 Household Craft Design and Preparation (3Units)

Review of elements and principles of design. Beadwork. Knitting. Crocheting, Fabric coloration, Tatting. Quilting. Embroidery. Bouquet preparation etc.

HSc 645 Clothing, Fashion Trends and Development (3 Units)

Clothing, origin and functions. Theories/motivations for clothing. Modern clothing philosophy. Socio-psychological aspects of clothing- clothing symbolism, clothing and impression formation and personality development, clothing and culture, Role of uniforms Clothing for different ages, groups and figures. Fashion and its components. Sources of fashion and factors determining fashion trends and cycles. Economics of fashion promotion. Psychology of fashion and mass marketing of fashion. Values and value theories in relation to clothing. Technological innovations in the production of textiles and clothing with value added functions and current fashion trend- Challenges and perspectives.

HSc 646 Household Textiles and Furnishes (3 Units)

History and evolution of household textiles and furnishings, importance and functions. Study of various household textiles and upholstery materials (furnishing, drapery and curtains) with respect to fibre content, yarn type, weave, design and finishes. Non-woven furnishing materials, properties and applications. Study of various styles in furnishings and their accessories. – Selection, care and maintenance of different household textiles and furnishing materials (bed linen, towels, furniture covers, automobile covers and floor coverings. Role of underlining in draperies.

HSc 648 Textiles and Apparel Quality Analysis (3 Units)

Importance of textile testing, standardization and quality control. Functions of B/S and other standards. Fibre testing: length, fineness, maturity, evenness and strength. Yarn testing: twist,

count, crimp, strength. Fabric testing: balance, weight, thickness, strength (breaking, tear and bursting), abrasion resistance, stiffness, air permeability, thermal properties, permeability, water permeability, repellency, wicking, dimensional stability and color fastness tests. Identification of fabric defects. Criteria for evaluating well-tailored garments.

HSc 655 Entrepreneurship Development and Management in Home Science (3 Units)

Entrepreneur- concept, development and need for entrepreneurial development; entrepreneurship growth- economic, social, cultural; personality, psychological and sociological factors affecting growth; traits for entrepreneurial development functions and roles of women entrepreneurs, problems and strategies for solving problems; entrepreneurial project planning- steps, building plans, using CPM for action plan, resource allocation, budgeting; project implementation- organizing, controlling, launching, monitoring, evaluation. Funding agencies- registration of project; filing returns and assessment; institutions for entrepreneurial training models and participatory management of human resources performance, appraisal, working climate, changing roles and constraints of entrepreneurial development. Importance and scope of entrepreneurship; need for developing enterprise; theories of enterprise; entrepreneurship-traits, functions and types; process of entrepreneurship and project management; management principles and practices as applicable to entrepreneurship; introduction to accounting and financial statements; sources of finance; financial and developmental institutions assisting small entrepreneurial ventures; location and layout of enterprise; marketing management practices for small scale enterprise

HSc 668 Statistics and Research Methods in Home Science (3 Units)

Research and research designs (survey, experimental, research and development (R&D), case study, action research, historical research designs etc.) Components of a research project; selection and formulation of problem. population, sample, sampling techniques and sample size determination, data collection techniques (quantitative and qualitative), data collection tools (questionnaire/rating scales, interview, observational techniques, focus group discussion, etc types, methods of construction and administration). Data manipulation, summarization and tools. Hypotheses testing and inferential statistics; parametric and non-parametric tests –Analysis of variance (ANOVA) and covariance ANCOVA), t-test, chi square, Duncan's Multiple range test, Schaffer's post hoc tests, Least significant difference (LSD). Regression analysis and multiple contingency. Performing quality control checks. Computer computation. Referencing- APA referencing style. Oral presentation, choosing the subject and criteria for choosing researchable topics.

HSc 679 Computer Applications in Home Science (3Units)

Elements of programming and data base management; network analysis and its use in the different areas of Home Science; Family and Child Studies. Family Resource Management (Home Management), Foods and Nutrition, Institutional Equipment and Management, Interior Decoration and Clothing and Textiles.

HSc 680 Advanced Seminar in Home Science**(3 Units)**

Exploration by guided study of special interest in Home Science for the individual postgraduate student and presented in a seminar or short written report with guidance of academic staff.**HSc**

HSc 690/691 Dissertation**(6/8 Units)**

Each student is expected to study fairly critically under controlled supervision by an academic staff a special problem in the chosen area of specialization in a dissertation. Student who presents a dissertation is expected to finally defend his or her findings before a panel of approved internal and external examiners. Each student must give an oral report in a seminar prior to presentation of unbound copies of findings to the head of department through his or her supervisor

C. Graduation Requirements

The programme consists of course work, project work and seminars. To be awarded the Doctor of Philosophy in Home Science, a candidate must have fulfilled the following conditions:

(b) Passed a minimum of 42 Credit Units, as follows:

Courses	
Units	
Core Courses	12
Thesis	12
Seminar	6
Electives	12
Total	42

(c) Carried out a research relevant to the area of specialization and submitted an acceptable thesis.

Stress Areas**Codes**

Introductory/Foundational Courses

0

Family and Child Studies	1
Home Management	2
Hospitality and Institutional Management	2
Interior Decoration and Design	2

Food and Nutrition	3
Textiles, Clothing and Fashion Design	4
Entrepreneurship	5
Statistics	6
Computer Application	7
Seminar	8
Project	
9	

Course Structure

Core Courses

PGC 701	Synopsis and Grant Writing	3
HSc 761	Statistics and Research Methods in Home Science	3
HSc 780	Advanced Seminar in Home Science 1	3
HSc 781	Advanced Seminar in Home Science 11	3
HSc 790/791	Thesis	12
	Electives	12
	Total	42

Electives in Areas of Specialization

i) Family and Child Studies

HSc 711	Techniques of Assessment in Human Development, Young Child Behavior and Guidance	3
HSc 712	Assessment Techniques in Family Studies	3
HSc 713	Parent Education	3
HSc 714	Developing Educational and Play Materials	3
	Total	12

ii) Home Management (Family Resource Management)

HSc 722	Occupational Stress Management	3
HSc 725	House and Its Interiors	3
HSc 727	Work Simplification and Analysis	3
HSc 729	Ecology and Environment	3
	Total	12

iii) Hospitality and Institutional Management

HSc 721	Hospitality Facility and Design	3
HSc 722	Occupational Stress Management	2
HSc 726	Human Resource/Personnel Management	2
HSc 732	Food Quality and Safety	2
	Total	9

iv) Interior Decoration and Design

HSc 716	Functional Designs for Special Needs	2
HSc 723	Landscape Design and Management	3
HSc 724	Floriculture and Flower Arrangement	2
HSc 749	Furniture and furnishing	2
	Total	9

v) Food and Nutrition

HSc 731	Food Commodity Studies, Preparation and Management	2
HSc 732	Food Quality and Safety	2
HSc 733	Nutritional Disorders	2
HSc 734	Advanced Community Nutrition	3
	Total	9

vi) Textiles, Clothing and Fashion Design

HSc 741	Sewing Projects for the Home	3
HSc 742	Colour, Dyes and Fabric Coloration	2
HSc 744	Computer Aided Apparel and Textile Design CAD)	2
HSc 745	Traditional, Contemporary and Specialized Tailoring/Construction	3
	Total	10

Course Distribution by Semester

First Semester

A. Core Courses

Course No	Title	Unit
PGC701	Synopsis and grant writing	3
HSc 761	Statistics and Research Methods in Home Science	3
HSc 781	Advanced Seminar in Home Science 1	3
	Total	9

Electives in Areas of Specialization

Course No	Title	Unit
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i) Family Resource Management (Home Management)

HSc 727	Work Simplification and Analysis	3
HSc 729	Ecology and Environment	3
	Total	6

iii) Hospitality and Institutional Management

HSc 721	Hospitality Facility Design	3
	Total	3

vii) Interior Decoration and Design

HSc 723	Landscape Design and Management	3
HSc 749	Furniture and Furnishing	3
	Total	6

viii) Food and Nutrition

HSc 731	Food Commodity Studies, Preparation and Management	3
HSc 733	Nutritional Disorders	3
	Total	6

vi). Textiles, Clothing and Fashion Design

HSc 741	Sewing Project for the Home	3
HSc 745	Traditional, Contemporary and Specialized Tailoring	3
	Total	6

Second Semester

A. Core Courses

Course No	Title	Units
HSc 780	Advanced Seminar in Home Science 11	3
HSc 790/791	Thesis	16
	Total	19

B. Electives in Areas of Specialization

i) Family and Child studies

HSc 712	Assessment Techniques in Family Studies	3
HSc 714	Developing Educational and Play Materials	3
	Total	6

i) Family Resource Management (Home Management)

HSc 722	Occupational Stress Management	3
HSc728	House and its Interiors	3
	Total	6

ii) Hospitality and Institutional Management

HSc 722	Occupational Stress Management	3
HSc 726	Human Resource/Personnel Management	3
HSc 732	Food Quality and Safety	3

Total	9
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iii) Interior Decoration and Design

HSc 716	Functional design for special needs	3
HSc 724	Floriculture and Flower Arrangements	3
	Total	6

iv) Food and Nutrition

HSc 732	Food Quality and Safety	3
HSc 734	Advanced Community Nutrition	3
	Total	6

v) Textiles, Clothing and Fashion Design

CourseNo	Title	Unit
HSc 742	Colour, Dyes and Fabric Colouration	3
HSc 744	Computer Aided Apparel and Textile Design (CAD)	3
	Total	6

Course Description

HSc 711 Techniques of Assessment in Human Development, (3 Units)

Conception and prenatal development. Domains of development, stages of development and developmental tasks. The context of development (families, culture, ethnic groups and social conditions). Relationships of heredity and environment. The universal characteristics of childhood (first experiences). Children in families, skill development and learning. Methods of child study (observation, longitudinal, cross-sectional, experimental, etc.) Purpose of assessment. Tools/methods for assessment. Factors to consider in choosing a method of assessment. Contrast initial and ongoing assessment. Advantages and disadvantages of various assessment tools/methods. List of child behavior portfolio. Guidelines for observing children.

HSc 712 Assessment Techniques in Family Studies (3 Units)

Family relationships (history of the family, family functions and forms, family life-cycle, adult life-cycle. Human developments (growth, developments, reproduction, contraceptive options). Caregiving through the life-cycle (human needs, nurturing/caring environment, changing needs, death and dying). Individual relationships and communication (communication, nurturing relationships, stress and lifestyles). Personal decisions and community connections (character development, work and family life, resource management). Diversity in society (relationship trends).

HSc 713 Parent Education**(3 Unit)**

Divorce as loss. Permanency of parental role/shared parenting. Developmental stages of childhood. Communication with children in a divorce situation Communication with the other parent. Abuse (power to control dynamics of domestic violence). Legal concepts (information about family law). Parenting time. How to separate adult business from children's business. Conflict avoidance strategies during divorce. Financial matters of divorce with children. Resource for divorcing parent.

HSc 714 Developing Educational Toys and Play Materials**(3 Units)**

Types of educational and play materials. Purposes of varieties of educational and play materials Features of good educational and play material. Planning and production of educational and play materials. Review and evaluation of educational and play materials . Significance of educational play materials. Preparation of social and fantasy play materials:- mirrors, dolls, puppets, stuffed toys. Explanation and mastery play materials: wooden blocks, puzzles, pattern making materials, books, music, art and movement play materials, art and craft materials, musical instruments, audio visual materials, gross motor play materials, push and pull toys, preparation of flash cards, charts, posters and models use of indigenous materials.

HSc 716 Functional Design for Special Needs**(3 Units)**

Identification of special need types:- the physically challenged, the blind, crippled, aged etc . Identifying and designing functional houses for the physically challenged.

HSc721 Hospitality Facility and Design**(3Units)**

Hospitality and tourism operations. Identification of various hospitality facilities and designs. Utilization and importance of design in hospitality and tourism industry. Relationship between design, construction and efficient operation of hotel assets. Problems /challenges in hospitality operations.

HSc 722 Occupational Stress Management**(3 Units)**

Occupational stress, stress vs challenge, facts on workers and stress/prevalence of occupational stress. The bodies physiologic response to stress, causes of stress, stress management/stress prevention. Strategy for individual stress management. Signs of stress and their solutions. Strategy for organizational change. Occupational stress management programme

HSc 723 Landscape Design and Management**(3 Units)**

Identification of landscape and turf plants pests and diseases. Job estimating and bidding, environmental planning and interpersonal skills. Design and maintenance of various landscape situations, landscape drawing, reading draws and design plans and safety. Equipment operation and safety, career exploration, turf and lawn curt, irrigation and

drainage/water needs of various landscape design rules, use of practicality. Needs analysis, aesthetics, property value appreciation. Sustainable and environmentally sensitive landscape design etc.

HSc 724 Floriculture/Flower Arrangement (3Units)

Basic elements and principles of artistic floral design. The history of floral design. Design construction techniques and floral design nomenclature. Selection of cut flowers and wiring flowers. Proper use and maintenance of tools for flower arrangement. Construction of flower designs for different occasions such as wedding floral design and sympathy flower

HSc 725 House and Its Interior (3Units)

Housing needs and future projections; different types of houses; financing; housing schemes; sociology of housing; ergonomic requirements in designing house; house wiring and sanitary fittings; slums and squatters; household furniture functional designing, materials used and evaluation techniques; recommendations for comfortable furniture for different household activities; space saving furniture; household equipment functional design, performance and selection

HSc 726 Advanced Human Resource/Personnel Management (3 Units)

Review of motivations for Human/personnel management. Management process and theories. Human resource policy, recruitment/selection, placement and promotion; motivation; learning concept and principles; interpersonal and group behavior dynamics; attitudes and job satisfaction; leadership; decision making and control; management skills; personal relations and conflict management.

HSc 727 Work Simplification and Analysis (3 Units)

Definition and classification of household work; factors influencing performance of household work; work and work place relationship; human costs of work in relationship; human costs of work in relation to effective cognitive, temporal and physical components; description and analysis of work and amount of work; procedure for designing work through time and motion study technique; design of work methods.

HSc 729 Ecology and Environment (3 Units)

Meaning and definition of ecology, ecosystem, earth, man and environment, scope of the subject, dimension of the environment; land (as a resource, land pollution; prevention and control), air (composition, and its usefulness, air pollution-sources, their hazards, greenhouse effect and ozone layer depletion and its impact, control measures), water (utility of water, problems and issues; water pollution and scarcity, pollution; their hazards and control), forest (utility of forest resources, deforestation and its impact, forest conservation), habitat and population (uncontrolled population growth and its impact, unplanned growth of cities and towns, migrations, problems of housing and essential services, control measures, energy (major sources, renewable and non-renewable energy sources; alternate energy sources and energy conservation measures, waste management- types and methods of waste management;

basic gardening understanding soil types, basic garden plants and their classification types of garden and their importance; environment education and protection.

HSc 731 Food Commodities Studies, Preparation and Management (3 Units)

Structure, composition, physico-chemical properties and effect of cooking on the food quality and nutritive value of foods- cereals and flour mixtures, legumes, fruits and vegetables, milk and milk products, eggs, meat, fish and poultry, fats and oils, nuts and oilseeds, condiments and spices; sweetening agents and beverages; sugar cookery, leavening agents and pectin's; non-conventional food sources soya, leaf and fish protein concentrates; sensory evaluation of food. Methods of preparing foods from different food groups-vegetables and fruits, salad, fats and oils, cereals and starches, legumes, milk and cheese, eggs, meat, poultry and fish. Introduction to batters and dough's.

HSc 732 Food Quality and Safety (3 Units)

Quality attributes and characterization of various foodstuffs for human consumption, safe levels of foods by physical, organoleptic, chemical and microbiological examination, food laws and regulations, food standards and their enforcement, waste disposal, personal hygiene, food toxicants, sources, occurrence and problems, and effects on food. Pests, pesticide and chemical control, quality and storage, marketing and level of nutrients, methods of evaluating safe food for all. Food labeling, codex alimentarius

HSc 733 Nutritional Disorders (3 Units)

Nutrition and health: major nutritional disorders and their causes; history, terminology, classification, epidemiology, clinical features, pathology, biochemical changes, prevention and treatment of PEM, nutritional anemia, iodine deficiency disorders, fluorosis and vitamin deficiency diseases; infection and immunity; nutritional disorders due to natural food toxins; malnutrition and mental development; influence of malnutrition on work capacity and productivity.

HSc 734 Advanced Community Nutrition and Public Health (3 Units)

Food consumption tables, nutrient requirements and adequacy of diets of individuals and groups, food availability. Detailed methodology and application in the assessment of nutritional status of different groups in the community using established standard methods, their uses and pitfalls, - Design, implement and interpret anthropometric surveys in urban and rural settings, food balance sheets, food consumption methods, vital statistics, clinical signs, construction and use of questionnaires, choosing nutritional indicators, use of reference populations and cut-off points. Conceptual framework, nutrition services and programmes. Feeding of special groups; appraisal of nutritional problems and solutions; use of growth and development charts and growth monitoring; public health nutrition problems in urban and rural areas, income generation activities of women, community based nutrition programmes. Population and food supply. Nutrition Learning and behavior. Assessment of ecological and seasonal factors, nutrition, poverty and welfare, conceptual framework and assessment of food consumption and factors.

HSc 741 Sewing Projects for the Home (3 Units)

Considerations for selection of materials and production of home sewn projects. Construction of home sewn projects including doors and window treatments and accessories. Sewing projects for the bed room: duvet, baby cot etc, sewing projects for sitting room, sewing projects for the kitchen, dining, baths and restrooms (emphasis on quilting, patchwork, crocheting, embroidery techniques and supporting fabrics.)

HSc 742 Colour, Dyes & Fabric Coloration (3 Units)

Concepts of colour, colour theory, colour matching and measurement technology. Dyes and dye classifications. Relation of colour to light, chromogenic types, chromosphere types and auxochrome types. Principles and problems in maintaining colour integrity. Fabric coloration and techniques: Dyeing, printing techniques and their variations. Projects include: Experimenting with different classes of dyes on fabrics of natural and manufactured fibres using dyeing and printing techniques. Determination of quality of dyes on fabrics. Colour fastness tests.

HSc 744 Computer Aided Apparel And Textile Design (3 Units)

Introduction to pattern making software. Knowledge of pattern making hardware and programmes. Use of computer for pattern making and other industry applications; making patterns for different age groups. Using AutoCAD for apparel. Altering patterns using AutoCAD. Grading pattern using AutoCAD. Using AutoCAD for illustration and fabric surface design. Printing and plotting patterns, illustrations and markers. Creating and storing slopers and basic pattern blocks. Three dimensional (3-D) body scanning.

HSc 745 Traditional, Contemporary and Specialized Tailoring (3 Units)

Handling special/challenging fabrics and sewing equipment. Application of trims and decorative surfaces. Fusing technology. Projects include construction of tailored garments such as suits and other formal party, wedding, functional/work clothes and special clothes including housecoats. Traditional wears and apparels for the physically challenged. Commercial tailoring. Using sophisticated and standardised machines for embroidery, edge finishing and other surface decorations in garment construction. Safety precautions in the clothing laboratory.

HSc 749 Furniture and Furnishing (3 Units)

Historic furniture style such as French, English, American covering of the 17th to 20th centuries and present day style. The Nigerian furniture. Identification of the furniture industries today, part 1 and part 2. Fabric and fabric selection. Factors to consider in the arrangement of furniture: furniture size, room use, structural features, traffic pattern. Types of household furnishings and their maintenance, factors affecting the selection of household furnishing. Home improvement techniques based on local and modern material. Management of household furniture based on principle of time management and work simplification.

HSc 761 Statistics and Research Methods in Home Science (3 Units)

Review of different research designs (survey, experimental, research and development (R&D), case study, action research, historical research designs etc.) Components of a research project; selection and formulation of problem. population, sample, sampling techniques and sample size determination, data collection techniques (quantitative and qualitative), data collection tools (questionnaire, interview, scales, observational techniques, focus group discussion, etc types, methods of construction and administration). Data manipulation, summarization and tools. Hypotheses testing and inferential statistics; parametric and non- parametric tests –Analysis of variance (ANOVA) and covariance ANCOVA), t-test, chi square, Duncan’s Multiple range test, Scheffe’s post hoc tests, Least significant difference (LSD). Regression analysis and multiple contingency. Performing quality control checks. Computer computation. Referencing- APA referencing style. Oral presentation, choosing the subject and criteria for choosing researchable topics.

HSc 780 Advanced Seminar 1 (3 Units)

Exploration by guided study of special interest in Home Science for the individual postgraduate student and presented in a seminar or short written report with guidance of academic staff.

HSc 781 Advanced Seminar 11 (3 Units)

Exploration by guided study of special interest in Home Science for the individual postgraduate student and presented in a seminar or short written report with guidance of academic staff.

HSc 790/791 Thesis/Dissertation (Ph.D) (12 Units)

Each student is expected to study fairly critically under controlled supervision by an academic staff a special problem in the chosen area of specialization in a dissertation. Student who presents a dissertation is expected to finally defend his or her findings before a panel of approved internal and external examiners. Each student must give an oral report in a seminar prior to presentation of unbound copies of findings to the head of department through his or her supervisor.