

## (a) Programme Outcomes (Pos) for entire course

P. G. Programme in Home Science is the learning outcomes based curriculum framework offers students with objective to provide understanding of entire learning outcome based curriculum enable and ability to apply knowledge and understanding in research and in other professional areas.

Core competencies outcomes as communication skills in students required to articulate thought and ideas using oral and written communication skills. Demonstrate technical knowledge and undertaking research, research methods, design and conducting research, how students learn and the implications for teaching. Demonstrate professional Knowledge of the physical, social and intellectual development and how these may affect learning. Showing competencies and action required for understand and keeping students professionally engaged and participate in learning to update knowledge and practice. Students contribute in discussion and apply constructive feedback from programme to improve professional knowledge and practice.

Master programme in Home science refers as arts as well as science. The scope of Home science as a subject is very broad covers areas of food science, community nutrition, human development, textile and clothing, extension education, research and statistics, advanced dietetics, parenting in early childhood. Familiarize students with the basic concept on subjects to demonstrate core competencies and specialized competencies that are required to develop knowledge.

Objective of programme and learning outcomes that student is provided with practical knowledge and practical approach of food science, Home science extension education programmes, tools of data collection etc.

Using knowledge, understanding and skills to learn the basic concept of statistics, methods and application of statistical technique, data analysis, and tabulation of data and interpretation of data. Making chart and graph.

Demonstrate the ability to understand about the stages of human development, principles and factors influencing human development. Provide understanding the process of programme planning in extension and process of communication.

Use knowledge, understanding and skills for assessment. Learn and demonstrate identification of textile fibers. Knowledge, understand and enable human physiology, structure and functions of internal organs of human body.

Demonstrate, learning competencies of consumer behaviour and consumer movement.

### **The objective of special paper, DSE301 Group A:-**

Understand and demonstrate the knowledge of Community nutrition. Apply the importance of nutrition in national progress and their significance in assessment of nutritional status

and to overcome malnutrition in national and international basis. Objective of special paper DSE 301 Group B-Theories of human development is to enable the students to understand the theories of human development, practical application of theories.

**Paper DSE(P)302 practical knowledge of Anthropometric measurement and diet survey:**

Development of low cost recipe for vulnerable to nutritional deficiencies. Fortification and enrichment of foods. Understand and organize nutrition intervention programmes for the community. Demonstrate the knowledge of principles of home management, interior decoration and family resource management.

Learn and apply aesthetic skills in interior decoration and become a good interior designer. Understand and in-depth knowledge about metabolic process of normal and diseased organs. Apply practical knowledge of diet counselling, role of dietician and diet in various diseases.

Understand the significance of parents in early childhood. Learn and conduct parent education programmes. Objective of Practical of special paper (Advanced dietetic) is understand and apply Practical knowledge of diet planning for various diseases, diet counselling of patients, different types of meal planning.

Demonstrate Practical Knowledge of parenting in early childhood. Understand the need of ECCE setup.

## (b) Program specific outcomes (PSOs) for each specialization

1. Specialization group (A) DSE 401 Advanced Dietetics: The measure outcome of the paper is to enable students to demonstrate knowledge on etiology, symptoms and dietary modification of various diseases. Gastrointestinal diseases, peptic ulcer, fever and infections, cardiovascular diseases and diabetes, renal disease, allergy, skin diseases. Role of drug interaction. Understand and knowledge about nutritional assessment of patients, diet counselling, role of dietician.
2. Group (B) DSE 402: Parenting in early childhood. The important outcome of the paper is demonstrating and understands the importance of parenting in early childhood. Recognise parent's education programmes, child rearing practices, importance of family and culture.

DSE 402 practical of Group A and Group B: Based on Advanced dietetics and parenting in early childhood.

Group A: Students learn and demonstrate the diet plan for patients suffering from various diseases and visit to hospital dietary department. This special course of advanced dietetics demonstrates ability of students to perform as dietician and establish as a successful dietician in Hospitals.

Group B: Apply and demonstrate the Practical knowledge of preparation of teaching material kit to become a good teacher.

Learn to Visit day care centres, Aganwadi, Mobile crèche etc.

Specific outcomes of PG course and from specialization is to equip students for teaching and research competencies and make them competitive enough at the national label.

**(c) Course outcomes (co<sub>s</sub>) of the courses (Pa-per wise): -**

Entire P.G. course in Home Science equip and enable students understanding of an academic field of study including in the field of teaching and research and able to enhance competitive ability. Aims and objective of master's degree in Home Sc. to provide students with learning experiences develop the ability to apply the knowledge and skills they have acquired. Home sc. education is skill based education enable students to develop skills that are relevant to employment, generate self-employment and entrepreneurship.

**Semester- I-Paper-CCHOSC 101Food Science (core course):-**

Students of this course are required to learn, understand and explain:

- Describe the constituents of foods. Define food science.
- Explain the Structure and composition of nutrients, Calculate the nutrient in food stuff, calculate Body Mass index.
- Describe the Properties and structure of water molecule
- Explain the Structure, properties, classification and sources of protein, carbohydrate, fats. Identify de-naturation of protein. Explain the composition and properties of cereals, dairy products, meat, fish, and egg.
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**Semester-I-Paper – CC Hosc102 Extension education and Communication System (core course)**

Learning outcomes that a student from this paper is required to learn and understand are given below:

- Recognise the concept of extension, extension approaches, Programme planning
- Discuss and understand the process of Communication.
- Understand and explain the extension system in India and in other countries.
- Draw and represent the extension models.
- Understand and describe the structure and functions of CAPART, KVIC, DRDA, SHGs.

**Semester-I-Paper CC Hosc 103 Research Methodology (core course):-**

Students of this paper are required to understand and demonstrate the research work:-

- Understand and interpret the basic Concept of research, research approaches.
- Formulate the research design and conduct the research.
- Explain and apply the methods of research, sampling, and hypothesis.
- Formulate and apply the methods of data collection
- Interpret and explain the principles of quantitative and qualitative research.
- Formulate and apply research report writing.
- Identify and test the reliability and validity of measurement tools.

**Semester-I-Paper CC Hosc 104(core course):-**

From this paper students are required to understand and demonstrate the followings:-

- Explain about textile fibres. Fundamentals and chemical concept of textile fibers.

- Identify the chemistry and Properties of natural and synthetic fibers. Chemical processing and finishing of textiles. Also learns and demonstrate clothing construction and care of clothing.
- Classify textile fibers, explain principles of fabric manufacturing, yarn manufacturing.
- Describe the textile fibers and their structure and properties.
- Classify textile finishing and purpose.

**Semester-I-Paper CC(P)HOSC105 practical based on theory papers:-**

From this Core course practical paper learning outcomes that student is required to do practical of theory papers and demonstrate and represent as indicated below:-

- Use of fermentation and preparation of recipe.
- Demonstrate the food product through enrichment process.
- Preparation and use of Audio-Visual Aids.
- Survey of NGO (KVK, KVIC, Mahilamandal).
- Formulate questionnaire/schedule.
- Identify textile fibres under microscope and draw the structure of fibres.

**Sem- II- CCHosc201 Statistics (Core course):-**

From this course core paper learning outcomes that a student of this course is required to understand and demonstrate the followings:-

- Explain the theories and methods of Statistics. Definition and basic principles of statistics.
- Use of statistical technique.
- Correctly represent the analysis and interpretation of data.
- Apply the graphic representation, classification and tabulation of data.
- Explain qualitative and quantitative research.
- Use of coding and data reduction strategies.

**Semester-II-Paper CCHosc(202) Advanced Study in Human Development(Core course):-**

From this core paper learning outcomes that a student is required to learn and understand the followings:-

- Understand and explain the principles and concept of development.
- Describe and understand the principles and factors influencing human development in these stages:-
- Prenatal development
- Infancy and early childhood
- Adolescence
- Adulthood and old age

**Semester-II-Paper CC Hosc 203 Clothing Management (Core course):-**

Learning outcomes from this core course that student of this course is required to describe and demonstrate are indicated below:-

- Apply the basic concept of clothing construction and care of clothing.
- Use the elements and principles of design.

- Draw and apply the principles of clothing construction, care and storage of garment.
- Demonstrate the Indian traditional textiles and embroideries.
- Apply the principles of drafting, pattern layout, marking and cutting, Stitching and handling of fabric.
- Provide and interpret care, precaution and storage of garment.

**Semester-II Paper CC Hosc204 Communication Process in Development (Core course): –**

Course learning Outcomes of this core paper that a Student of this course is required to understand and demonstrate the followings as given below:-

- Explain the communication system.
- Recognise the principles effective communication, visual communication.
- Understand and use of traditional media, modern media, print media, electronic media and outdoor media.
- Recognise the principles of effective media.

**Semester- II -Paper CC(P)205(Practical based on theory papers): –**

From this core practical paper learning outcome that student is required to do practical of theory papers and demonstrate as given below:-

- Formulate a set of tables and tabulate raw data.
- Use of all types of graphs to represent the collected data.
- Apply the interview method to collect data from adolescence and find out their problems.
- List the methods for visit old age home and organise a programme for old aged people.
- Apply the methods in field to find out problems in women due to menopause.
- Apply and demonstrate traditional embroideries.
- Undertake activities for preparation of audio-visual aids use them in a community development programme.

**Sem- III- Paper CC Hosc 301 Applied Physiology (Core course): -**

The learning Outcomes from this core paper for semester 3 that student is required able to understand and show as indicated below:-

- Describe the structure and functions of cell, explain intracellular communication.
- Explain the structure and function of endocrine system.
- Correctly represent the structure and function of heart, blood pressure, hypertension, blood composition, blood clotting.
- Explain and correctly represent the structure and function of circulatory system, digestive system, excretory system, respiratory system.
- Explain immune system, activation of WBC, production of antibodies.
- Explain the reproductive system, mechanism of menstrual cycle.
- Understand and explain the physiological changes in pregnancy.

### **Semester-III Paper CC Hosc 302 Consumer economics (Core course): -**

Learning outcome is that student is required to understand and demonstrate as indicated below:-

- Understand and define the consumer, describe the characteristics and role of consumer in Indian market and economy of a nation.
- Explain meaning, definition, characteristics and types of market.
- Recognise the exploitation of consumer, types of exploitation.
- Demonstrate up-to-date analytical skills required the detection of food adulteration.
- Assess the market strategies which influencing consumer behaviour.
- Apply guidelines for wise purchasing practices.

### **Semester- III- Paper CC Hose DSE 301 Group A: Community Nutrition (Special paper):-**

Learning Outcomes from special paper is that a student of this course is required to learn and demonstrate as given below:-

- Describe the nutrition and health in national development.
- Draw and interpret nutritional problems confronting our country.
- Apply methods of assessment of nutrition to find out the nutritional status of community.
- Demonstrate in-depth knowledge and understanding about nutrition intervention scheme in India. Learn and explain the national and International agencies working for community nutrition-ICDS, SNP, FAO, WHO, UNICEF, CARE, AID, ICMR, CSIR, NIN, CFTRI, mead day meal programme.
- Explain the importance of breast feeding and its implication.
- Formulate and prepare weaning food.
- Write about nutrition and infection. Importance of immunization.
- Recognise and apply recent advances for community nutrition.

### **Semester-III- Paper DSE Hosc 301Group B Theories of Human Development (Special Paper):-**

Learning Outcomes from this special paper is that Student is required to learn , understand and represent about the followings as given below:-

- Explain and understand the theories of human development.
- Describe the early theories of Locke, Rousseau.
- Describe the Ethological theory of Darwin, Bowly.
- Understand and explain the cognitive theory of Piage.
- Explain the psychoanalytical theory of Freud.
- Assess the theories of the self-Mead and Kohut theory.

### **Semester-III-Paper DSE (P) Hosc 302 Group A: Practical based on Community Nutrition:-**

Learning outcomes of this special paper is that student of this course is required to undertake practical work in lab and and survey in field to demonstrate and represent as given below:-

- Assess the nutritional status of children / community.
- Development and preparation of low cost recipe for the vulnerable group sufferings from nutritional deficiencies.
- Assess the market survey of fortified foods.
- Preparation and survey of enriched foods.
- Community Nutrition
- Demonstrate skills required for organize nutrition intervention programme in the community.
- Use the interview of adolescence to find out personal and social changes.
- Use interview method for assessing delinquent children to find out their problems.
- Formulate activities for cognitive development among children from one to ten years.
- **Project:-**Undertake research work that help students the practical knowledge and skills that are required for pursuing career in research, teaching, food industry, dietician in hospitals Etc., and skills for working competency in laboratory.

### **Semester- IV -Paper CC Hosc 401Resource Management (Core course):-**

Learning outcome of semester 4 student of this core course paper is that student required to learn, understand and represent the followings as given below:-

- Demonstrate in depth knowledge and understanding about the fundamental concept in home management, importance, philosophy, values, standards and goals. Decision making in family, nature and role of management process.
- Demonstrate skills in management of family resources-time management, energy management, money management, decision making in family.
- Explain family resources, meaning, classification and importance.
- Use of knowledge and skills required for budget and savings
- Understand and apply the techniques of work simplification.

### **Semester-IV-Paper CC Hose 402 Housing and interior Decoration (Core course): –**

Learning outcomes of core course paper is that student required to learn, explain and demonstrate about the followings indicated below:-

- Describe definition and classification of interior design.
- Use knowledge, understanding and skills required for structural design, ornamental, naturalistic, stylized, geometrical, historical, traditional, modern and abstract design.
- Demonstrate professional competencies of knowledge required to articulate, the element of design- line, form, colour, texture, light, space.
- Develop and derive the principles of design and apply the use of balance, rhythm, proportion, harmony and emphasis in interior design.
- Develop the skills and application of design.
- Understand and demonstrate the Prang and Munsell colour system.
- Application of pastel colours and neutral colours, warm colours and cool colours.



- Apply and use the colour harmonies monochromatic, analogous, direct complementary, double complementary, split complementary, triads and tetrads.
- Explain the accessories in interior-definition, classification and placement of picture, art, crafts, sculptures, antiques, indoor plants, flower arrangement.

**Semester-IV-Paper DSE 401 Group – A: Advanced Dietetics (Special paper): -**

Learning outcomes of this special paper course is that Students of fourth semester required to learn, understand in-depth and demonstrate are given below:-

- Demonstrate the knowledge of nutrition and diet counselling, nutritional assessment of patients.
- Formulate and demonstrate routine hospital diet. Recognise methods of oral feeding, tube feeding, and intravenous feeding. Preparation of pre-operative diet, diet in surgical condition, burns and cancer. Liquid diet, soft diet, convalescence and liberalized.
- Understand and explain the causes, complications, dietary treatment and recommendation of obesity and leanness.
- Formulate and demonstrate diets in fever and infections, in gastritis and peptic ulcer- etiology, symptoms, clinical findings, dietary modification. Metabolism in fever.
- Formulate and demonstrate diet in influenza, typhoid, recurrent malaria and tuberculosis.
- Formulate and demonstrate diets in renal disease, cardio-vascular disease, allergy, and skin disturbances-etiology, symptoms and dietary modification. Understand sodium restricted diet, level of sodium restriction, danger of sodium restriction.
- Understand and formulation and modification of diets during diseases- Gastritis and peptic ulcer, colitis, malabsorption symptoms, diarrhoea, constipation, flatulence ulcerative colitis, spruce, celiac disease.
- Formulate and demonstrate up-to-date skills of modification of diet in disease of liver, pancreas, gall bladder, jaundice, hepatitis, cirrhosis of liver and hepatic - etiology, symptoms and nutritional implications.
- Demonstrate the knowledge of diabetes mellitus- symptoms, metabolism, and dietary treatment.
- Understand and explain hypoglycaemic agent, insulin and its type, complications of diabetes.
- IN-depth knowledge of drug interaction-Effect of drug therapy on intake of drug, absorption and utilization of nutrients.

**Semester- IV-Paper DSE Hosc 401 Group B: Parenting in Early childhood (Special paper): –**

Learning outcomes of this course special paper students learn, understand explain as indicated below:-

- Understand and explain the determinants of parenting behaviour, characteristics of parenting role
- Understand the concept of family and family cycles.
- Recognise and explain the development in early childhood years- the role of parent in early childhood, Family relations and communications.

- Understand and application of helping the child to learn to express and control emotions. Learning social and interaction with others.
- Learn and apply techniques of parent education in preschool setting.
- Use of informal meeting, large/small group meeting, written/printed circulars, notices etc.
- Use of home visit, individual sessions.
- Understand and demonstrate the influence of child rearing practices, family and culture, parent education and support.
- Understand the early experiences and developmental consequences-optimal and non-optimal growth, influence on physical, psychomotor and cognitive growth and development.

**Semester-IV-Special Paper DSE (P) Hosc 402 Group A and Group B : Practical on Advanced Dietetics and Parenting in early childhood(special course) :-**

Learning Outcomes of this special course paper is that student is learn , demonstrate and apply of Practical Knowledge in laboratory/in field of the followings indicated below:-

**Practical on advanced dietetics:-**

- Learn and apply to visit hospital in dietary department.
- Apply the principles of diet therapy and demonstrate the dietary management during constipation, diabetes, fever, liver disease, renal problems and heart disease.
- Demonstrate the meal planning in lab .
- Formulate and apply counselling method of patients suffering from diseases and in special condition.
- Formulate and draw layout of hospital kitchen.

**Practical on parenting in early childhood**

- Learn and apply your learning in field visit in Day care centre, balwadi, anganwadi, mobile crèche.
- Learn and preparation of teaching material kit.
- Learn and presentation in mock setup- story telling and their technique, puppet, song booklet and low cost musical instrument, painting, games.
- Formulation and presentation of picture talk, object talk.
- Arrange and Presentation of workshop with children represents art and creative activities.
- Visit to the home of mentally challenged children.

