



# Fatima College

(Autonomous)

*Re-Accredited with 'A++' (CGPA 3.61) by NAAC (Cycle- IV)*

*College with Potential for Excellence (2004 - 2019)*

*101 - 150 Rank Band in India Ranking 2021 (NIRF)*

Mary Land, Madurai - 625 018, Tamil Nadu.



## FATIMA COLLEGE (AUTONOMOUS), MADURAI – 625018

2020 - 2021

**NAME OF THE PROGRAMME: B. Sc HOME SCIENCE WITH FOOD BIOTECHNOLOGY**

**COURSE CODE: UAHS**

### **PROGRAMME OUTCOMES:**

**PO 1:** Scientific Knowledge in the thrust areas of Home science like Food and Nutrition, Textiles and Clothing, Human Development, Family Resource Management and Extension Education.

**PO 2:** Acquisition of skills in meal planning, food processing, pattern making and garment construction, interior design and decoration

**PO3:** Professional competence in the management of family resources and to establish crèche and preschool.

**PO4:** Inculcating social responsibilities through community related activities.

**PO5:** Digital literacy in designing garments and calculating the nutritive value of foods.

### **PROGRAMME SPECIFIC OUTCOMES:**

**B.Sc. HOME SCIENCE WITH FOOD BIOTECHNOLOGY**



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<b>PSO1</b>	Understanding the anatomy and functions of the various systems of the human body.
<b>PSO 2</b>	Acquisition of skills in analysing & estimating various blood parameters.
<b>PSO 3</b>	Scientific knowledge in the area of food and nutrition, food processing and production.
<b>PSO 4</b>	Acquisition of skills in planning therapeutic diets and diet counselling
<b>PSO 5</b>	Scientific knowledge on the role of microbes in food processing and production.
<b>PSO 6</b>	Acquisition of knowledge and skills in front office operation and housekeeping.
<b>PSO 7</b>	Professional competence in planning different cuisines and styles of food service.
<b>PSO 8</b>	Scientific knowledge in the conversion of fibre to fabric and technical textiles.



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<b>PSO 9</b>	Acquisition of skills in patternmaking, garment construction, wardrobe planning and fashion illustration.
<b>PSO 10</b>	Digital literacy in designing garments using <b>Fashion Studio</b> software and calculating the nutritive value of foods using <b>Nutrical</b> software
<b>PSO 11</b>	Understanding the basic developmental tasks of different stages of lifespan.
<b>PSO 12</b>	Creating awareness on children with special needs.
<b>PSO 13</b>	Developing basic knowledge on marriage & family. Awareness of the vivid knowledge on the contemporary problems related to family.
<b>PSO 14</b>	Developing knowledge on theories & philosophies of preschool education. Developing professional competency in creche and preschool management.
<b>PSO 15</b>	Creative thinking in application of elements & principles of design in interior decoration and clothing.



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<b>PSO 16</b>	Professional competence in the management of family resources
<b>PSO 17</b>	Acquiring skills in arrangement of tables and other accessories.
<b>PSO 18</b>	Developing skills in the application of colours, furniture arrangement, lightings, flower arrangement and management of resources in day- to-day life.
<b>PSO 19</b>	Professional competence to become an entrepreneur.
<b>PSO 20</b>	Acquiring skills to transform the standard of living of rural people.
<b>PSO 21</b>	Practically assess the problems of people using participatory tools.



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COURSE CODE	COURSE TITLE	COURSE OUTCOMES
19N1NME	Basics of Nutrition	<p>The students will be able to</p> <ul style="list-style-type: none"><li>❖ Define the terminologies related to nutrition and health</li><li>❖ Describe the functions of food, food groups and food guide pyramid</li><li>❖ Identify the symptoms of deficiency disease of nutrients</li><li>❖ Classify micro nutrients and identify the impact on health</li><li>❖ Choose the appropriate cooking methods to conserve the nutrients</li></ul>
19N2CC4	Human Nutrition	<ul style="list-style-type: none"><li>❖ The students will be able to</li><li>❖ Define the units and concepts of energy</li></ul>



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		<ul style="list-style-type: none"><li>❖ Classify and explain the macro and micro nutrients.</li><li>❖ Describe the nutrients with respect to the excess, deficiency and RDA for each nutrient.</li><li>❖ Solve the problem of identifying the nutrient quantification to sustain the energy allowance</li><li>❖ of individuals.</li><li>❖ Explain the non nutrients – water and dietary fibre.</li><li>❖ Describe antioxidants, nutrigenetics and nutrigenomics</li></ul>
19N2CC5	Food Science	<ul style="list-style-type: none"><li>❖ The students will be able to</li><li>❖ Define the basic concept and recent trends in food science and nutrition.</li><li>❖ Classify the cooking methods.</li><li>❖ Describe the composition of food groups.</li><li>❖ Choose the suitable cooking methods for various food groups.</li><li>❖ Identify the role of foods in Indian cookery.</li></ul>



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19N3CC7	Extension Education and Communication	<ul style="list-style-type: none"><li>❖ The students will be able to</li><li>❖ Define the concepts of Home Science Extension Education.</li><li>❖ Describe the various welfare programmes for women</li><li>❖ Explain the principles and models of communication</li><li>❖ Classify the extension teaching methods.</li><li>❖ Construct audio –visual aids.</li></ul>
19N3SB1	Entrepreneurial skills – Surface Ornamentation	<ul style="list-style-type: none"><li>❖ To enable students to</li><li>❖ Illustrate a basic motif .</li><li>❖ Recognize the basic hand stitches and prepare samples.</li><li>❖ Choose and apply appropriate embroidery stitches on various products.</li><li>❖ Describe different methods of painting on fabrics.</li><li>❖ 5. Plan the fabric painting technique for clothing and household linen.</li></ul>



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19N4CC11	Clothing and Fashion	<ul style="list-style-type: none"><li>❖ The students will be able to</li><li>❖ Identify the different techniques of pattern making and pattern layout.</li><li>❖ Explain the principles of wardrobe planning and factors to be remembered in the selection</li><li>❖ of clothes.</li><li>❖ Summarize the laundering agents.</li><li>❖ Recall the terms related to fashion industry, fashion cycle and fashion trends.</li><li>❖ Describe the structure of fashion industry, fashion market and fashion promotion</li><li>❖ techniques.</li><li>❖ 6. Illustrate and apply elements and principles of design on casual wear, party wear and kids wear.</li></ul>
19N4SB2	Entrepreneurial Skills – CAD	<ul style="list-style-type: none"><li>❖ The students will be able to</li><li>❖ Illustrate the basic silhouettes of garments.</li><li>❖ Plan the colour and design based on the type of</li></ul>





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		<p>garment</p> <ul style="list-style-type: none"><li>❖ Identify the areas for the application of transparent effect</li><li>❖ Choose appropriate pleat, fold and accessories</li><li>❖ Organize the designed garment against a background</li></ul>
N5CC13	Crèche and Preschool Management	<ul style="list-style-type: none"><li>❖ The students will be able to</li><li>❖ The importance of children's environment and overall development of pre-school children.</li><li>❖ Construct the administrative skills to establish the preschool.</li><li>❖ Express the views of educationists of preschool</li><li>❖ Build a skill in preparing various teaching aids for preschoolers</li><li>❖ Organize and maintain different play equipment's and records in preschool Centre</li></ul>
N5CC15	Family Resource Management	<ul style="list-style-type: none"><li>❖ The students will be able to</li></ul>



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		<ul style="list-style-type: none"><li>❖ Classify the types, elements of design.</li><li>❖ Explain the principles of design, and its application in interiors.</li><li>❖ Construct house plan and landscaping</li><li>❖ Describe the housing problems and remedies.</li><li>❖ Build skills in interior designing.</li></ul>
N5ME1	Technical Textiles	<ul style="list-style-type: none"><li>❖ The students will be able to</li><li>❖ Identify the application areas of Technical Textiles.</li><li>❖ Describe the types of Geo Textiles, their properties and applications.</li><li>❖ organize the four areas of Medical Textiles</li><li>❖ Choose the appropriate protective textiles for short term and long term survival.</li><li>❖ 5. Restate in own words the application of technical textiles for various modes of transport.</li></ul>
N5ME2	Food Biotechnology	<ul style="list-style-type: none"><li>❖ The students will be able to Describe the techniques in</li></ul>



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		<p>enzymes production and its application</p> <ul style="list-style-type: none"><li>❖ Summarize the process distilled alcoholic beverages</li><li>❖ Classify the types of food additives of microorganism origin</li><li>❖ Explain the concept of transgenic plants and its application in food industry</li><li>❖ Define genetically modified foods and its application in food industry</li></ul>
N5SB3	Entrepreneurial Skills – Baking, Adulteration and Food Preservation	<ul style="list-style-type: none"><li>❖ The students will be able to</li><li>❖ Define the terminology in baking, adulteration and preservation.</li><li>❖ Recognize the principles of food preservation.</li><li>❖ Choose the method of food preservation .</li><li>❖ Identify the adulterants in foods.</li><li>❖ Classify the food additives.</li></ul>
N5SB4	Participatory Rural Appraisal	<ul style="list-style-type: none"><li>❖ The students will be able to</li></ul>



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		<ul style="list-style-type: none"><li>❖ Define PRA and its principles</li><li>❖ Describe the application of PRA.</li><li>❖ List the types and techniques of mapping.</li><li>❖ Plan participatory research method in the field</li><li>❖ Identify the rural problems and plan projects</li></ul>
N6CC17	Resource Management	<ul style="list-style-type: none"><li>❖ The students will be able to</li><li>❖ Describe the management process</li><li>❖ Identify the human and non-human resources</li><li>❖ Explain the financial management .</li><li>❖ Summarize the key elements of standard of living</li><li>❖ Built the concepts of consumerism.</li></ul>
N6CC19	Clinical Nutrition and Dietetics	<ul style="list-style-type: none"><li>❖ The students will be able to</li><li>❖ Identify the principles of meal planning in nutrition through life cycle.</li><li>❖ Recall the nutritive value of foods for planning diets</li><li>❖ Recognize the etiology and symptoms of diseases</li></ul>



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		<ul style="list-style-type: none"><li>❖ Build skills in preparation of therapeutic diets</li><li>❖ Solve problem of malnutrition through intervention programmes</li></ul>
N6ME3	Family Dynamics	<ul style="list-style-type: none"><li>❖ The students will be able to</li><li>❖ Describe the stages of adulthood.</li><li>❖ Built knowledge on marriage and family.</li><li>❖ Recognize and solve family crisis.</li><li>❖ Summarize welfare programme for the aged and children with special needs</li><li>❖ 5. Restate in own words the significance of population education.</li></ul>
N6ME4	Food and Dairy Processing	<ul style="list-style-type: none"><li>❖ The students will be able to Define the characteristics of food raw materials</li><li>❖ Recall the preparative operations in food industries</li><li>❖ Classify the methods of heat and cold processing</li><li>❖ Choose the different processing methods adopted for</li></ul>



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		plant and animal foods ❖ Illustrate the processing & preparation of milk and milk products
N6ME5	Women and Entrepreneurship Development	<ul style="list-style-type: none"><li>❖ The students will be able to Define the concept of entrepreneurship.</li><li>❖ Describe the requisites to establish business.</li><li>❖ List the institutions for entrepreneur development.</li><li>❖ Plan and prepare the project report.</li><li>❖ Recognize the components of project appraisal.</li></ul>
N6SB5	Entrepreneurial Skills –Nutrition Counselling	<ul style="list-style-type: none"><li>❖ The students will be able to</li><li>❖ Explain the counseling process.</li><li>❖ Identify the appropriate counseling techniques.</li><li>❖ Choose audiovisual aids for diet counseling.</li><li>❖ Organize counseling camps for specific diseases.</li><li>❖ Recall the principles of therapeutic diet.</li></ul>
N6SB6	Entrepreneurial Skills – Interior	<ul style="list-style-type: none"><li>❖ The students will be able to</li></ul>



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	Design and Decoration	<ul style="list-style-type: none"><li>❖ Construct floor plan for different income groups.</li><li>❖ Classify the concept of interior design .</li><li>❖ Describe the concepts of landscaping.</li><li>❖ Identify the different types of windows treatments .</li><li>❖ Explain the application of Vastu in interior</li></ul>
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