



# 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

### CRITERION 1 - CURRICULAR ASPECTS

**1.1.1 Curricula developed and implemented have relevance to the local, national, regional and global developmental needs which is reflected in Programme outcomes (POs), Programme specific outcomes (PSOs) and Course Outcomes (COs), of the Programmes offered by the Institution.**

**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.



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

## PROGRAMME SPECIFIC OUTCOMES:

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

<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.



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<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.
<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.



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<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.
<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	NATURE OF THE COURSE (LOCAL/ NATIONAL/ REGIONAL/ GLOBAL)	COURSE DESCRIPTION	COURSE OUTCOMES
19N1NME	Basics of Nutrition	Local/National/ Regional/	This course helps to understand the basic concepts on health, nutrition and deficiency diseases of various nutrients	The students will be able to <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</li></ul>



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				nutrients
19N2CC4	Human Nutrition	Local/National/ Regional/	The course offers the classification, metabolism, functions and deficiency disorders of macro and micronutrients.	<ul style="list-style-type: none"><li>❖ The students will be able to</li><li>❖ Define the units and concepts of energy</li><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,</li></ul>



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				nutrigenetics and nutrigenomics
19N2CC5	Food Science	Local/National/ Regional/	The course emphasizes on the composition of foods and the changes that occur during processing.	<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>
19N3CC7	Extension Education and Communication	Local/National	This course create awareness on principles of extension education and extension	<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> </ul>



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			teaching methods	<ul style="list-style-type: none"> <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 Ornmentation	Local	This skill based paper aims at imparting hand embroidery and fabric painting techniques.	<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	Local	This course aims at imparting knowledge on basics of clothing construction, clothing selection, care and wardrobe planning. It also deals with fashion industry, fashion promotion and fashion illustration.	<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 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></ul>
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				❖ 6. Illustrate and apply elements and principles of design on casual wear, party wear and kids wear.
19N4SB2	Entrepreneurial Skills – CAD	National	This course imparts skill in designing fashion garments, texture mapping and application of suitable accessories and background using Fashion Studio software.	<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 garment</li> <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	Local/National/	This course imparts	❖ The students will be able to



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	Management	Regional/	a comprehensive theoretical knowledge on the management of crèche and preschool management	<ul style="list-style-type: none"> <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	Local	This course elicit knowledge on all aspects of housing and application of	<ul style="list-style-type: none"> <li>❖ The students will be able to</li> <li>❖ Classify the types, elements of design.</li> <li>❖ Explain the principles of design,</li> </ul>



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			art in home.	<p>and its application in interiors.</p> <ul style="list-style-type: none"> <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	Local/Regional	This course offers deep insight into the various application areas of 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> </ul>



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				❖ 5. Restate in own words the application of technical textiles for various modes of transport.
N5ME2	Food Biotechnology	Local	The course offers knowledge on the scope, importance and the basic aspects of biotechnology relating to foods	<ul style="list-style-type: none"><li>❖ The students will be able to Describe the techniques in enzymes production and its application</li><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</li></ul>



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				industry
N5SB3	Entrepreneurial Skills – Baking, Adulteration and Food Preservation	Local/National/ Regional	The course gives hands on training in the preparation, display of various baked, preserved food products and identification of adulterants in commercially available foods.	<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	Local/National/ Regional	This course enlightens the students on concept of participatory rural appraisal.	<ul style="list-style-type: none"> <li>❖ The students will be able to</li> <li>❖ Define PRA and its principles</li> <li>❖ Describe the application of PRA.</li> <li>❖ List the types and techniques of mapping.</li> </ul>



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				<ul style="list-style-type: none"> <li>❖ Plan participatory research method in the field</li> <li>❖ Identify the rural problems and plan projects</li> </ul>
N6CC17	Resource Management	Local/National/ Regional	This course offers knowledge on managing resources like time, money and energy. It also deals with consumerism and standard of living.	<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	Local/National/	The course gives a	<ul style="list-style-type: none"> <li>❖ The students will be able to</li> </ul>



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	Dietetics	Regional	detailed picture of the normal & therapeutic nutrition, highlighting the importance, recommended dietary allowance, medical nutrition therapy for various stages of life cycle and all disease conditions.	<ul style="list-style-type: none"><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><li>❖ Build skills in preparation of therapeutic diets</li><li>❖ Solve problem of malnutrition through intervention programmes</li></ul>
N6ME3	Family Dynamics	Local/National/ Regional	This course describes the dynamics of the family with reference	<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></ul>





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			to its structure, function, problems, and supportive programmes.	<ul style="list-style-type: none"> <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	Local/National/Regional	This course enlighten the students to understand the various food processing operations in food industries.	<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 plant and animal foods</li> </ul>



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				❖ Illustrate the processing & preparation of milk and milk products
N6ME5	Women and Entrepreneurship Development	Local/National/ Regional	This course offers deep insight into the concepts of entrepreneurship and the institution for entrepreneurship development. It also deals with the preparation of project report and appraisal.	<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	Local/National/ Regional	This course provides a strong ground in	<ul style="list-style-type: none"> <li>❖ The students will be able to</li> <li>❖ Explain the counseling process.</li> </ul>



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			the strategies and techniques of nutrition counselling, nutrition education ,nutrition care plan, evaluation and documentation.	<ul style="list-style-type: none"> <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 Design and Decoration	Local/ Regional	This course offers deep insight on all the aspects of interior design and decoration.	<ul style="list-style-type: none"> <li>❖ The students will be able to</li> <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</li> </ul>



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				windows treatments .  ❖ Explain the application of Vastu in interior
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