### Programme Outcome, Programme Specific Outcome and Course Outcome

Department of Home Science	After successful completion of three years
-	degree program in B.Sc.
	(Food Science and Nutrition)
Programme Outcome	<b>PO1-</b> Developed problem-solving competencies
-	in life skills
	<b>PO2-</b> Understood the role of interdisciplinary
	sciences in thedevelopment of individual,
	families and communities
	PO3-Enhanced the application of science and
	technologies inquality of life of individual
	<b>PO4-</b> Acquired professional and entrepreneurial
	skills forEconomic empowerment of self in
	particular and communityin general
	<b>PO5-</b> Trained students in professional skills
	<b>PO6-</b> Developed professional skills in foods and
	nutrition, textilesScience, housing, product
	making, communication technologies and human
	development
	<b>PO7-</b> Adopted and transfer the scientific
	innovations from lab tothe community
Programme Specific Outcome	<b>PSO1-</b> Understood the concepts of different
	areas of homescience
	<b>PSO2-</b> Produced knowledgeable and skilled
	human resourceswhich is employable in food
	industries, hospitals andtextile industries
	<b>PSO3</b> -Comprehended the current techniques in foods and nutritionand textile science
	<b>PSO4-</b> Produced entrepreneurs who developed customized solutions for small and medium
	Enterprises
	Lucipuses

## **Department of Food Science and Nutrition**

#### Course Outcomes of Bachelor of Home Science Semester – I

S.No	Course Code	Course	Outcomes
1.	SMFN11	Food Science	1. Understand the food groups and their
			functions.
			2. Acquire knowledge on different
			methods of cooking
			3. Apply process of different foods
			4. Use combination of foods in the
			development of food products.
			5. Identify and control adulterants in
			various foods and evaluate food quality.
2.	SMFN12	Public Health and	1. Develop comprehensive skills in public
		Community Nutrition I	health nutrition.
			2. Become professionals in Public health
			Nutrition.
			3. Acquire knowledge in epidemiological
			aspects.
			4. Excel in assessment of nutritional status
			on the community.
			5. Opportunities in government and NGOs
			as public health nutritionist.
3.	AAFN11	Human Physiology I	1. Understand the Structure and Functions
			of the various organ systems of the body
			2. Relate the Structure with Functions of
			the tissues and organs
			3. Comprehend the Mechanism of Action
			of Organs
			4. Relate the Physiology of the human
			body with Food and Nutritional
			requirements
			5. Recognize the Clinical Symptoms of
			Nutritional Deficiencies based on
			anatomical considerations.
4.	SMFNP1	Food Science Practical	1. Demonstrate skills on determination of
			edible portion, effect of cooking on
			volume and weight.
			2. Choose appropriate cooking method to
			conserve nutrients.
			3. Acquire skills on different methods of
			cooking.
			4. Understand experimental cookery.
			5. Develop recipes by applying
			knowledge on cooking methods and
			properties of food

#### Course Outcomes of Bachelor of Home Science Semester – II

S.No	<b>Course Code</b>	Course	Outcomes
6.	SMFN21	Human Development	<b>1-</b> To develop and understand the need
			and importance of early

			<ul> <li>childhood education.</li> <li>2-To develop and understand curricular planning.</li> <li>3-To learn various skills required for conductingdevelopmentally appropriate program for children.</li> <li>4-To gain insight into the organization and management of a preschool centre.</li> </ul>
7.	SMFN22	Public Health and Community Nutrition II	<ul> <li>1-Identify the causes of commonly prevalent nutritional problems in the country.</li> <li>2-Understand various methods of assessment of the nutritional status in the community.</li> <li>3-Know about strategies and intervention programmesundertaken by the government, National and international voluntary agencies to combat nutritional problems</li> </ul>
8.	SAFN21	Human Physiology II	<ol> <li>Get sensitized about reproductive system and functions</li> <li>Elaborate the regulation of body fluids and blood parameters.</li> </ol>
9.	SMFNP2	Human Development Practical	<ol> <li>Recognize various tools and techniques to study the different domains of development in children</li> <li>Employ the standardized charts on growth and development of children by assessing their anthropometric status of children.</li> <li>Administer the memory tests to assess the learning capacity of children and interpret the findings</li> <li>Assess the cognitive ability of the children by administering and interpreting Gesell drawing test and Pandey's cognitive development test</li> <li>Locate and appraise various screening techniques to identify developmental delays among children</li> </ol>

#### Course Outcomes of Bachelor of Home Science Semester – III

S.No	Course Code	Subject		Outcomes
11.	SMFN31	Essential o Nutrients	of Macro	<ol> <li>Understand the role of energy in various physiological conditions of the body.</li> <li>Know the nutritional significance and health benefits of macronutrients.</li> <li>Explore the role of dietary fibre,</li> </ol>

			aminoacids and fatty acids in human		
			nutrition and disease.		
			4. Acquire skills to evaluate protein quality		
			5. Comprehend on the water balance and		
			assessment of hydration status		
12.	SSFN3A	Food Processing and	1. Understand the role of micro organisms		
		Preservation	in food spoilage		
			2. Classify the various types of food		
			spoilage		
			3. Understand ambient temperature		
			processing		
			4. Distinguish between high and low		
			temperature processing		
			5. Differentiate between syruping and		
			brining		
13	SAFN31	FamilyResource	1. Identify the resources and factors		
		Management I	influencing the use of resources.		
			2. Understand use of tools in time		
			management in day to day life.		
			3. Apply work simplification techniques		
			while planning work.		
			4. Develop skills to draw a budget within		
			the available income and to maintain		
			accounts		
14	SAFNP3	Family Resource	1.Scope and significance of		
		Management I Practical	Management		
			2.Managerial function on families		
			3.Decision making process in Family		
			resource management		
			4.Flower arrangement		
			5.House plan		
15.	SMFNP3	Essential of Macro	1. Acquire skills to analyse various		
		Nutrition Practical	nutrients.		
			2. Competence to use various equipments		
			for the analysis of nutrients.		
			3. Perform qualitative analysis of protein		
1			and minerals		

#### Course Outcomes of Bachelor of Home Science Semester – IV

S.No	<b>Course Code</b>	Subject	Outcomes
16	SMFM41	<b>Essentials of Micro Nutrients</b>	1. Gain in depth knowledge on
			the physiological and metabolic
			role of Vitamins.
			2. Outline the role of vitamins in
			health and disease.
			3. Assess the physiological
			action of vitamins and minerals.
			4. Acquire in depth knowledge of
			macro and micro minerals and
			their role in human health and

			diseases.
			5. Enable to understand the inter
			relationship between vitamins
			and minerals
17	SSFN4B	Food Processing Equipment	<b>1-</b> To understand the principle,
			working and use of various
			equipments
			<b>2-</b> To enable students to
			practice bulk food production
			<b>3-</b> To help students identify
			types of new products.
			<b>4-</b> Student will develop a
			product suitable for specific
			needs.
			5-Itwill help develop
			entrepreneurial skills.
			<b>6-</b> It will help detect the
			Quality Food
18.	SAFN41	Family Resource	1. Relate the human resource and
10.	SALIT	Management II	managerial functions.
			2. Plan effective managerial
			techniques.
			3. Apply knowledge for
			manpower planning and selection
			process
			4. Compile effective of employ
			wages.
			5. Outline professional ethics
10			and employees.
19.	SMFNP4	Essentials of Micro Nutrients	1. Demonstrate quantitative
		Practical	analysis of calcium, phosphorus and iron.
			2. Analyze ascorbic acid
			quantitatively and assess cooking
			losses.
20.	SAFNP4	Family Resource	<b>1</b> .Work simplification
_~.		Management II Practical	techniques in family activity
			management
			2.Different types of room
			arrangement
			arangement

# Course Outcomes of Bachelor of Home Science Semester – V

S.No	<b>Course Code</b>	Subject	Outcomes	
21.	SMFN51	Nutrition Through	1. Understand and apply nutritional	
		Life Cycle	assessment techniques 2. Understand growth	
			and development and nutritional requirement	
			during pregnancy and lactation to promote	
			healthy living in the community	

			3. Know about growth and development and
			nutritional requirement of school going
			children and adolescents
			4. Acquire the knowledge on growth and
			development and nutritional requirement
			during infancy and preschool age
			5. Know the nutritional needs of adults and
			elderly.
22.	SMFN52	Food Chemistry	1. Demonstrate proficiency in understanding
		•	physiochemical changes occurring in foods
			during cooking.
			2. Explain the properties and reactions of the
			various food components.
			3. Describe the basic principles and
			properties of starch proteins, fats and oils,
			pectic substances and spices and condiments.
			4. Gain sufficient knowledge about
			chemistry of starch proteins , fats and oils,
			pectic substances.
			5. Develop products with minimum
			nutritional loss based on the knowledge of
			<b>u</b>
	GGENEG		food chemistry.
23.	SSFN5C	Food Service	1. Understand organization structures in food
		Management	service institutions.
			2. Comprehend the theories and principles of
			management.
			3. Demonstrate marketing and sales
			promotional skills.
			4. Aware of concepts of Total Quality
			Management.
			5. Manage food requirements in disaster.
24.	SSFN5D	Food Microbiology	CO1-Understand the basic principlesof
			food microbiology.
			CO2-Identify organisms involved in the
			contamination and spoilage of various
			foods.
			<b>CO3-</b> Develop an awareness of the
			beneficial effects of microorganisms
			<b>CO4-</b> To understand the nature and the
			role of microorganisms infood.
			CO5-To have a knowledge of the basic
			principles of food
			sanitation and safety.
			CO6-To acquire a perspective of the
			importance of microorganismsin
			environmental microbiology
25	SMEND5	Nutrition Through	
25.	SMFNP5	Nutrition Through	1. understand the concept of therapeutic nutrition and diets
		LifeCycle Practical	2. learn the formulation of different modified
			diets and feeding techniques
			3. categorize the diseases, disorders and
			deficiencies for planning suitable diets
	1		4. update knowledge on advanced techniques

	and	concept	of	diet	planning	and	diet
	coun	selling					
	5.	prepare	diets	and	calculate	e nut	rient
	com	position for	or di	etary i	interventio	n	

#### Course Outcomes of Bachelor of Home Science Semester – VI

S.No	Course Code	Subject	Outcomes				
26.	SMFN61	Dietetics	1. Know the importance and				
			principles of dietetics as a distinct				
			therapy for diseases				
			2. Gain knowledge on the types and				
			role of dieticians.				
			3. Understand the different				
			therapeutic diets				
			4. Learn the dietary management for				
			gastrointestinal, liver and gall				
			bladder diseases.				
			5. Relate dietary management for				
			nutritional deficiency diseases				
27.	SMFN62	Clinical Biochemistry	1. Understand fundamental				
			biochemical concepts.				
			2. Relate metabolic processes				
			with each other. Interpret the				
			outcome of metabolic processes				
			3. The students will be familiar with				
			collection of biological samples and				
			preservation				
			4. The students will know to clinical				
			significance of metabolic disorder of				
			carbohydrate, protein and lipid				
			5. The students will know the				
			importance of clinical enzymologist.				
28.	SSFN6A	Fundamentals of Baking	1. Understand the principles of				
		8	baking and confectionery.				
			2. Acquire knowledge on role of				
			various ingredients used in baking				
			and confectionery.				
			3. Use combination of foods in the				
			development of baked products				
			4. Identify and control faults in				
			baking.				
			5. Establish a bakery unit.				
29.	SEFD6A	Fundamentals of Textiles	1. To classify the standards set for				
		and Clothing	garment construction.				
		6	2. Examine the standards for good				
			garment fitting.				
			3. Analyze the standard available for				
			textile materials.				
			4. Estimate the tolerance in				
			developing spec sheet for garment				
			design.				

			5. To interpret care labelling system
			for various fabrics and garment
30.	SMFNP6	<b>Dietetics Practical</b>	1. Understand the basic principles
			involved in planning diets for
			different disease conditions.
			2. Plan and prepare diets to meet out
			the quality and quantity
			requirements for specific disease
			conditions
			3. Acquire practical knowledge of
			therapeutic diet to meet the
			requirement
			4. Gain knowledge in planning and
			preparing diets for CVD, diabetes,
			hypertension, peptic ulcer, cancer
			and the like
			5. Understand the calculations of
			nutritive value for the planned and
			prepared diet

## **Course Outcome Dietetics and Food Service Management**

S.No	<b>Course Code</b>	Title of the Course	Course Outcome
1.	PDMM11	Laboratory	1. Acquire skills to analysis various
		Techniques in	bloods parameters using different
		Nutrition Research–I	methods .
			2. Ability to relate the theoretical
			knowledge with the biomarkers for
			CVD & diabetes using auto
			analyzer. 3. Ability to relate the
			theoretical knowledge with the
			biomarkers for liver & kidney
			functions using auto analyzer
			4. Apply the techniques to estimate
			the urine for various parameters.
			5. Understand and examine the
			urine by qualitative methods
2.	PDMM12	<b>Clinical Dietetics I</b>	1. Relate the causes, symptoms and
			onset of various types of diseases.
			2. Apply dietary principles to plan
			therapeutic diets for diseases
			conditions
			3. Demonstrate skills in preparing
			appropriate therapeutic diets and
			calculate the nutrient content of
			diets prepared
			4. Counsel and recommend

			personalized diets for various
			disease condition
			5. Become a health care
			professional.
3.	PDMM13	Food Microbiology	1.Know the basic concepts of
		and Safety	microbes in food biotechnology,
			Genetically Engineered Organism
			and in Human Welfare.
			2. Ability to relate the theoretical
			knowledge with the current
			situation of microbes in
			environment
			3. Understand & to examine the
			relevance of microbial spoilage of various foods.
			4. Provide frame work to examine
			the relevance of microbial spoilage of various foods.
			5. Apply the food safety and
4		Advenced Feed	quality control in suggest situation.
4.	PDMM14	Advanced Food	e
		Science and	characteristics and properties of
		Chemistry	foods
			2. Comprehend the knowledge
			gained on characteristics and
			properties of foods during cooking
			3. Apply the properties of food in
			various food processing and
			preparations 4. Analyze the factors
			affecting cooking quality of foods (
			gelatinization, coagulation
			crystallization) 5. Develop
			appropriate food preparation and
			processing methods to ensure quality standards.
5	PDMMP1	Laboratory	1. Skill in collection of blood and
5.		Laboratory Techniques in	
		Techniques in Nutrition Research-	1 5
		I practical	2. Competent in handling analytical equipments.
		i practical	
			3. Choose appropriate analytical procedures
			-
			1
	1		qualitative analysis of urine and

			blood sample.
			5. Examine and interpret analytical
			results
6.	PDMMP2	Clinical Dietetics	1.Learn to prepare hospital diets
		Practical I	2. Plan diets based on dietary
			principles
			3. Set up diet trays and calculate
			nutrients
			4. Plan and prepare appropriate
			diets for therapeutic conditions
			5. Apply knowledge in counselling
			for disease conditions
7.	PDMM21	Laboratory	1. Understand the need for analysis
<i>.</i>		Techniques in	and instrumentation 2. Identify an
		Nutrition Research-	appropriate technique for analysing
		II	specific substances
			3. Learn the principles of different
			instruments used for analysis
			4. Have an insight into the
			advanced techniques in food and
			nutrient analysis
			5. Update knowledge on analytical
			instruments by visiting laboratories
8.	PDMM22	Clinical Dietetics II	1. Know the importance and
			principles of dietetics as a distinct
			therapy for diseases 2. Gain
			knowledge on the types and role of
			dieticians
			3. Understand the different
			therapeutic diets
			4. Learn the dietary management
			for gastrointestinal, liver and gall
			bladder diseases.
			5. Relate dietary management for
			nutritional deficiency diseases
9.	PDMM23	<b>Functional Foods</b>	1. Gain knowledge on sources of
		and Nutraceuticals	functional foods and
			Nutraceuticals.
			2. Acquire skills to categorize
			Nutraceuticals. 3. Gain awareness
			on the functional foods and
			Nutraceuticals of microbial origin.
			4. Obtain knowledge of functional

			foods and Nutraceuticals in health
			and diseases.
			5. Understand the regulatory
			aspects of functional foods and
			Nutraceuticals
10	PDMM24	Computor	
10	F DIVIIV124	Computer	1 Gain knowledge on historical developments and computer
		Application in Food Service	
			peripherals in the operation of
		Management	computers.
			2. Acquire the skills in exploring
			windows applications in
			development of documents, data
			analysis in spread sheet and power
			point presentation
			3. Understand the computer
			networks in efficient utilization of
			internet and intranet connection in
			digital communication.
			4. Elicit multimedia presentation
			focussing on utilization of
			authorizing tools.
			5. Able to apply computer
			applications in meal management
			practices and explore the nutritional
			software's and journals in
			professional and academic
			endeavours.
11.	PDMMP3	Laboratory	1. Acquire skills to analysis various
		Techniques in	bloods parameters using different
		Nutrition Research	methods .
		practical -II	2. Ability to relate the theoretical
			knowledge with the biomarkers for
			CVD & diabetes using auto
			analyzer. 3. Ability to relate the
			theoretical knowledge with the
			biomarkers for liver & kidney
			functions using auto analyzer
			4. Apply the techniques to estimate
			the urine for various parameters.
			5. Understand and examine the
			urine by qualitative methods
12	PDMMP4	<b>Clinical Dietetics</b>	1.Develop skills in planning
1.		Junca Dicterity	rie vier skins in planning

		Practical II	therapeutic diets
			2. Analyze the disease condition
			and plan appropriate menus
			3. Calculate nutrient content of diet
			plans
			4. Prepare the various types of diets
			5. Learn techniques in diet tray
			arrangement and assess patient
			compliance
13.	PDMM31	Nutritional	1. Understand the basic concepts of
		Biochemistry	biochemistry
			2. Gain knowledge on metabolism
			of carbohydrate protein and lipids
			3. Acquire knowledge on functions
			and mode of action of different
			hormones.
			4. Relate metabolism of different
			nutrients with dietary intake.
			5. Suggest preventive measures to
14			overcome metabolic abnormalities
14.	PDMM32	Food Processing and	1. Know the basic concepts of food
		Preservation	processing & recent trends in
			processed foods
			2. Relate the theoretical Knowledge
			of Processing Techniques with food
			product development.
			3. Understand the relevance of
			Processing for various food
			commodities.
			4. Apply the basic strategies
			involved in the new product
			development.
			5. Provide frame work for
			packaging, labelling and food
			standards.
15.	PDMM33	Advanced Baking	1. Understand the principles of
			baking and confectionery.
			2. Acquire knowledge on role of
			various ingredients used in baking
			and confectionery.
			3. Use combination of foods in the
			development of baked products
			4. Identify and control faults in

			baking.
			5. Establish a bakery unit
16.	PDMM34	Research Methodology	<ol> <li>Comprehend the different types of research and various tools of data collection.</li> <li>Translate the knowledge gained on types of data and tools of data collection in compiling editing and coding of data and hypothesis</li> </ol>
			<ul><li>3. Perform Statistical analysis</li><li>4. Interpret and justify the research findings</li><li>5. Design, execute and document a research</li></ul>
17.	PDMMP5	Food Processing and Preservation Practical I	<ol> <li>Know the principles of preservation behind the methods of preservation.</li> <li>Understand the stages of sugar cookery, quality of pectin and acidity in the development of preserved fruit products.</li> <li>Acquire skills to formulate fruits based preserved products with value addition for nutritional benefits.</li> <li>Explore the principle of preservation in vegetables based preserved products with nutritive value.</li> <li>Prepare cereals and pulses based preserved products focusing the principle of preservation.</li> <li>Develop new products with maximum retention of essential nutrients</li> </ol>
18.	PDMMP6	Advanced Baking Practical I	

			5 Decign common belowy and
			5. Design common bakery and
10			confectionery recipes.
19.	PDMM41	Human Factors &	1.Relate the human resource and
		Ergonomics	managerial functions. 2. Plan
			effective managerial techniques. 3.
			Apply knowledge for manpower
			planning and selection process
			4. Compile effective of employ
			wages.
			5. Outline professional ethics and
			employees
20.	PDMM42	Food Quality	1. Comprehend food service
		Control	systems.
			2. Plan and forecast production
			schedules.
			3. Select appropriate purchasing
			procedures and issuing.
			4. Skill in stepping up of recipes of
			different cuisines. 5. Manage a
			large scale food production unit.
21.	PDMM43	Nutrition Through	1.Understand Concept of Fitness
41.		Fitness	Training
		Filless	2. Foster Fitness Skills
			3. Prevent and Manage Lifestyle related Disorders
			4. Utilise exercise in Stress and
			Health Management
			5. Gain the Technical Ability to run
			Fitness Centres
22.	PDMMP6	Food Processing and	1. Know the principles of
		Preservation	preservation behind the methods of
		Practical II	preservation.
			2. Understand the stages of sugar
			cookery, quality of pectin and
			acidity in the development of
			preserved fruit products.
			3. Acquire skills to formulate fruits
			based preserved products with
			value addition for nutritional
			benefits.
			4. Explore the principle of
			+. Explore the principle of
			preservation in vegetables based

PDMMP7	Advanced	Baking	<ul> <li>5. Prepare cereals and pulses based preserved products focusing the principle of preservation.</li> <li>1.An understanding of recipes /</li> </ul>
	Practical II	Daking	<ul> <li>formulations used in baking and confectionery.</li> <li>2. Ability to prepare a variety of baked goods and confectionery</li> <li>3. Gain skills and ability to select ingredients for baking and pre preparation of the products.</li> <li>4. Knowledge of factors that affect quality of baked products and confectionery.</li> <li>5. Develop value added baked products with better nutrition.</li> </ul>