



Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
Rukhama Mahila Mahavidyalaya Nawegaon/ Bandh
Tah- Arjuni/ Mor. Dist- Gondia-441702


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B.Sc Home Science

PROGRAM OUTCOMES

SR. NO	PO's	DESCRIPTION
1	PO 1	All programmes offer various relevant skill oriented courses.
2	PO 2	The course focuses on skill development, innovation and capacity building.
3	PO 3	Courses aim at making the students self-reliant with necessary proficiencies for a wide variety of career with entrepreneurial skills and placement.
4	PO 4	Specialized courses are in sync with industry-academic needs, national & global issues and challenges.
5	PO 5	Practical training/exposure through internship, field visit, project work, expert lectures, demonstration, workshops and seminars gives hands-on experience to students.
6	PO 6	Students are sensitized towards challenges and solutions for societal development from grass- root level, i.e., home.
7	PO 7	Continuous innovations evolved through scientific researches in post graduate programs empower women and family with solutions to deal with everyday challenges


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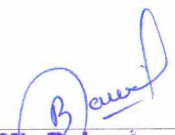
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CO'S OF ALL SUBJECTS

Sr. No.	Subject Name & Course Code	CO's	A student will be able to
1	Food and Nutrition (Fundamentals of Food Science and Nutrition-I) (1T- 1)	CO1-	Recognize role of nutrients, their requirements
		CO2-	Recognize the effect of deficiency-excess of nutrients & function of food.
		CO3-	Identify basic nutrients present in foods.
		CO4-	Skill to develop ability to improve the nutritional quality of food.
2	Human Development (Fundamentals of Human Development) (1T-2)	CO1-	Understand human development.
		CO2-	Understand human behaviour.
		CO3-	Understand prenatal development.
		CO4-	Understand development during infancy and childhood.
3	Textile and Clothing (Fundamentals of Textile & Clothing) (1T-3)	CO1-	Know about textile fibers and enhance knowledge about types of yarn.
		CO2-	Knowledge about yarn numbering system.
		CO3-	Fabric formation methods and their properties and end uses.
		CO4-	Knowledge latest fiber and factors affecting clothing.
4	Family Resource Management (Fundamentals of Family Resource Management) (1T-4)	CO1-	Knowledge of importance of good taste.
		CO2-	Understand Basic concept of management.
		CO3-	Develop aesthetic sense and to be good art consumer .
		CO4-	Knowledge on importance of interior decoration.


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5	Home Science Extension (Fundamentals of Home Science Extension) (1T-5)	CO1-	Student get knowledge about need, concept, types of education & scope of home science.
		CO2-	Understand meaning & need of Home Science extension.
		CO3-	Understand importance of Rural Sociology and Rural Society.
		CO4-	Understand importance of Social Problems, Poverty and Rural Social Problems.
6	Household Biology (Ecology and Environment -I) (1T-6)	CO1-	Knowledge about ecosystem.
		CO2-	Knowledge about environment.
		CO3-	Knowledge about natural resources.
		CO4-	Knowledge about pollution.
7	Chemistry (BASIC CHEMISTRY-I) (1T-7)	CO1-	Knowledge about purification of water for domestic purpose.
		CO2-	Knowledge about alloy and effect of alloying various elements on properties of steel, composition and uses of stainless steel and brass.
		CO3-	Knowledge about physical properties of liquids.
		CO4-	Knowledge about colloids, emulsion and gel.
8	Physics (Applied Physics and Basic Computer I) (1T-8)	CO1-	Knowledge on measurements and units.
		CO2-	Knowledge on concept of fundamental and derived quantities.
		CO3-	Knowledge on mechanics.
		CO4-	Knowledge on uses of computer in various fields.
9	English (English and Communication Skills-I) (1T-9)	CO1-	Prepare the students to communicate effectively and fluently in English.
		CO2-	Prepare the students to deal with customers, professional, counselors in correct grammatical, idiomatic English.
		CO3-	Strengthen grammatical accuracy.
		CO4-	Enable students listening, speaking reading and writing.


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SEMESTER-II

1	Food and Nutrition (Fundamentals of Food Science and Nutrition-II) (2T-1)	CO1-	Identify various food groups their role and functions.
		CO2-	Plan different recipes using different cooking methods & media and effect of different cooking methods on the quality of foods.
		CO3-	Knowledge on role of various nutrients, effect of deficiency and excess.
		CO4-	knowledge on vitamins.
2	Human Development (Development In Early Years) (2T-2)	CO1-	Understand growth and development during infancy & early childhood.
		CO2-	Understand factors influencing development during infancy and early childhood years.
		CO3-	Knowledge on emotional development.
		CO4-	Knowledge on cognitive and language development.
3	Textile and Clothing (SEWING TECHNIQUES) (2T-3)	CO1-	Skill on stitching technique and trimming.
		CO2-	Develop skill on spinning process and chemical process.
		CO3-	Knowledge on seams.
		CO4-	Knowledge on fashion accessories.
4	Family Resource Management (Interior Decoration & Design) (2T-4)	CO1-	Develop aesthetic sense.
		CO2-	Develop good art consumer.
		CO3-	Understand the importance of colour in Interior Decoration.
		CO4-	Understand the types of flower arrangement and their uses.
5	Home Science Extension (Social Survey and Community Development) (2 T-5)	CO1-	Students developed awareness regarding community development programmers.
		CO2-	Students assess the methods of social survey & social research.
		CO3-	Students impart knowledge of community development & Extension Education.
		CO4-	Knowledge about gender and development.


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6	Household Biology (Ecology & Environment - II) (2T-6)	CO1-	Knowledge about types of garden, Importance of garden, Nursery Development.
		CO2-	Knowledge about plant propagation.
		CO3-	Knowledge about mushroom and types suitable for cultivation.
		CO4-	Knowledge about Vermicompost and Vermiculture.
7	BASIC CHEMISTRY-II (2T-7)	CO1-	Knowledge about characteristics of good fuel, calorific value, preparation of Gobar gas.
		CO2-	Knowledge about concept of acid and base.
		CO3-	Knowledge about organic compounds and Homologous series.
		CO4-	Knowledge about factors causing atmospheric corrosion,
8	Applied Physics and Basic Computer - II (2T-8)	CO1-	Understand concept of basic electricity.
		CO2-	Understand concept of nature of light.
		CO3-	Understand concept of types of lens and x-rays.
		CO4-	Understand concept of mother board and computer memory.
9	English and Communication Skills- II (2T-9)	CO1-	Enable students listening, speaking reading and writing.
		CO2-	Prepare the students to communicate effectively and fluently in English.
		CO3-	Prepare the students to deal with customers, professional, counselors in correct grammatical, idiomatic English.
		CO4-	Personality development training through situational role play, interview techniques, group discussions, seminar presentation.


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SEMESTER –III


1	<p align="center">Food and Nutrition (Community Nutrition) (3T-1)</p>	CO1-	Understand the advantage of maintaining healthy lifestyle with following a balanced diet with adequate physical activity.
		CO2-	Skills on preparation of standardized recipes for specific age group.
		CO3-	Identify basic Nutritional requirement of individual (RDA) and Prepare diet plans for individual of different age group and physical states.
		CO4-	Knowledge on microorganisms on food.
2	<p align="center">Human Development (Development in Late Childhood and Adolescence) (3T-2)</p>	CO1-	Understand development in late childhood and adolescence.
		CO2-	Understand dimensions of development in adulthood.
		CO3-	Understand the significant changes during late childhood to adolescence
		CO4-	Recognize the issues concerning late childhood and adolescence.
3	<p align="center">Textile and Clothing (Textile Design) (3T-3)</p>	CO1-	Knowledge of traditional textiles.
		CO2-	Develop creativity in designing for prints.
		CO3-	Knowledge of various methods of fabric construction.
		CO4-	Awareness of different dyeing and printing techniques.
4	<p align="center">Family Resource Management (Housing and Interior Decoration) (3T-4)</p>	CO1-	Understand concept of Housing.
		CO2-	Understand factors affecting house planning.
		CO3-	Knowledge about arrangement of furniture.
		CO4-	Develop graphic skills to express ideas in design, forms, knowledge of landscaping and economic use of space.
5	<p align="center">Home Science Extension (Extension Communication Techniques) (3T-5)</p>	CO1-	Students develop awareness about group psychology & group dynamics.
		CO2-	Students assess the extension teaching methods & approaches.
		CO3-	Knowledge about art of presentation.
		CO4-	Knowledge about devices useful in effective communication.


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6	Household Biology (Applied Physiology- I) (3T-6)	CO1-	Understand the structure and function of various organs of human body.
		CO2-	Understand Locomotor System and Sense Organs.
		CO3-	Understand blood and Lymphatic system.
		CO4-	Promote the basic knowledge of first aid.
7	APPLIED CHEMISTRY-I (3T-7)	CO1-	Knowledge about carbohydrates and lubricants.
		CO2-	Knowledge about fermentation.
		CO3-	Knowledge about oils and fats.
		CO4-	Knowledge about preparation and action of soap and detergents.
8	Applied Physics & Computer Application -I (3T-8)	CO1-	Knowledge on electrical safety.
		CO2-	Knowledge on heat, appliances and operating systems.
		CO3-	Knowledge on word processing software (MS WORD).
		CO4-	Knowledge on database creation and management software (MS EXCEL)
SEMESTER -IV			
1	Food and Nutrition (Nutrition for Life Span) (4T-1)	CO1-	Understand preservation techniques & role of microorganisms in food industry.
		CO2-	Knowledge on planning of meal.
		CO3-	Assess nutritional status of individual by different assessment methods.
		CO4-	Knowledge to calculate balance diet.
2	Human Development (Development in Adulthood) (4T-2)	CO1-	Understand concerns of the family and society with respect to the individual in adult hood.
		CO2-	Understand early adulthood.
		CO3-	Understand middle adulthood.
		CO4-	Understand late adulthood.


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3	Textile and Clothing (SURFACE ORNAMENTATION TECHNIQUES) (4 T-3)	CO1-	To develops the ornamentation skills of students through using various techniques of the same.
		CO2-	To make students aware about different regional embroideries of India as well as some basic western embroideries.
		CO3-	learn about different hand dyed and painted textiles of India along with their techniques.
		CO4-	learn about various lace making techniques.
4	Family Resource Management (Housing and Home Furnishing) (4 T-4)	CO1-	To gain knowledge about the role of internal amenities in contributing for satisfying family living.
		CO2-	Understand waste management.
		CO3-	Understand lighting and house planning.
		CO4-	Understand home furnishing and floor coverings.
5	Home Science Extension (Media In Extension) (4 T -5)	CO1-	Students understand the concept of mass communication & media in Extension.
		CO2-	Students comprehend the concept of advertisement in extension.
		CO3-	Student develops the understanding of journalism in extension.
		CO4-	Students get knowledge about art of presentation & devices useful for effective communication.
6	Household Biology (Applied Physiology - II) (4T-6)	CO1-	Understand the structure and function of Heart.
		CO2-	Understand the structure and function of respiratory system.
		CO3-	Understand the structure and function of Digestive System.
		CO4-	Understand the structure and function of Reproductive System.
7	APPLIED CHEMISTRY-II (4T-7)	CO1-	Knowledge about preparation and uses of polyethylene, PVC, Nylon-6, Nylon-66 and polyester.
		CO2-	Knowledge about dyes and aromatic chemistry.
		CO3-	Knowledge about cosmetics and drugs.
		CO4-	Knowledge about essential oils and perfumes.



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8	Applied Physics & Computer Application -II (4 T-8)	CO1-	Knowledge on electricity.
		CO2-	Knowledge on effects of electric current.
		CO3-	Knowledge on electrical appliances.
		CO4-	Knowledge on MS power point and internet.
SEMESTER -V			
1	Food and Nutrition (DIET THERAPY - I) (5 T-1)	CO1-	Understand the significance of therapeutic diet in management of various disease conditions.
		CO2-	Modify basic diets for common lifestyle diseases.
		CO3-	Choose appropriate diets for various physiological conditions.
		CO4-	Knowledge about cause of various diseases.
2	Human Development (Family Dynamics and Developmental Assessment) (5T-2)	CO1-	Become aware of importance of family.
		CO2-	Become aware of importance of marriage.
		CO3-	Knowledge on developmental assessment.
		CO4-	Knowledge on early development stimulation.
3	Textile and Clothing (Advanced Pattern Making) (5T-3)	CO1-	Skill in designing and making paper pattern for different garment.
		CO2-	Develop the ability to create style in the garment through flat pattern making.
		CO3-	Knowledge about principles of draping fabric on the dress form.
		CO4-	Skill in creation of parts like skirts, collars, sleeves.
4	Family Resource Management (Resource Management - I) (5T-4)	CO1-	Recognize the importance of wise use of resources.
		CO2-	Importance of motivating factors in management.
		CO3-	Knowledge on family resources.
		CO4-	Understand decision making and time management.


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5	Home Science Extension (Programme Planning And Building In Extension) (5T-5)	CO1-	Students develop awareness about group mobilization & role of change agents.
		CO2-	Develop understanding about Programme planning.
		CO3-	Develop understanding of community organization.
		CO4-	Knowledge about adoption process in community development.
6	Household Biology (Nutritional Biochemistry- I) (5T-6)	CO1-	Understanding of the principals of biochemistry.
		CO2-	Understanding of the principals of carbohydrates.
		CO3-	Understanding of the principals of lipids and protein.
		CO4-	Understanding of the principals of nucleic acid.
7	Applied Physiology/ Household Biology (Health Science and Hygiene) (5T-7)	CO1-	Understand basic concept of microorganisms
		CO2-	Understand concept of Infectious disease Epidemiology.
		CO3-	Understand concept of Health Education and Disinfection.
		CO4-	Understand concept of Family planning and demography.
SEMESTER –VI			
1	Food and Nutrition (Diet Therapy-II) (6T-1)	CO1-	Describe the different types of diets.
		CO2-	Knowledge about feeding methods for various disease conditions.
		CO3-	Understand diet management.
		CO4-	Knowledge about symptoms of various diseases.
2	Human Development (Care and well-being in Human Development) (6T-2)	CO1-	Understand the significance of care and wellbeing in human development.
		CO2-	Understand the concerns at different stages of life.
		CO3-	Explore the availability of services and institutions that promote care and wellbeing.
		CO4-	Knowledge on policies, services and programs.

3	Textile and Clothing (Fashion Designing) (6T-3)	CO1-	Enhance knowledge about preparations of fabric, pattern layout and fitting styles of Garments.
		CO2-	Understand about the working of fashion industry
		CO3-	Understand about terminology of fashion.
		CO4-	Understanding of international designers and their work.
4	Family Resource Management (Resource Management -II) (6T-4)	CO1-	Develop ability to apply management principles in experimental house.
		CO2-	Develop ability to manage various resources.
		CO3-	Develop ability to apply work simplification techniques.
		CO4-	Understand event management.
5	Home Science Extension (Community Development and Management) (6 T-5)	CO1-	Students developed the concept of Extension training & methods.
		CO2-	Students understand the necessity, importance & aspects of coordination in Extension work.
		CO3-	Students understand the concept of development communication & PADC.
		CO4-	Students understand administration, supervision & monitoring evaluation for Extension work.
6	Household Biology (Nutritional Biochemistry-II) (6 T-6)	CO1-	Basic knowledge on chemistry of major nutrients and physiologically important compounds.
		CO2-	Obtained an insight into the biological processes, systems like Metabolism as applicable to human nutrition.
		CO3-	Basic knowledge on protein and lipid metabolism.
		CO4-	Apply the knowledge acquired to human nutrition and dietetics.
7	Applied Physiology/ Household Biology (Public Health) (6T-7)	CO1-	Understand concept of Bacteria and viruses.
		CO2-	Understanding of diseases caused by bacteria, viruses and protozoa
		CO3-	Understand concept of parasitic infections and mode of infection.
		CO4-	Understand concept of Immunity.


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