



**CENTRE OF ADVANCED FACULTY TRAINING
IN
HOME SCIENCE POST-GRADUATE & RESEARCH CENTRE,
ACHARYA N.G RANGA AGRICULTURAL UNIVERSITY,
RAJENDRANAGAR, HYDERABAD.**

Introduction:

Home Science education has been a major pathway for women into public education and for providing entry to a wide variety of careers for women in academia, business, public education, government and health care. This development of women is essential not merely for the benefit of womenfolk but for the very survival of the society, for the progress, peace and prosperity of the country. The CAFT- Home Science in ANGRAU, Hyderabad, is the only centre in India to disseminate advanced knowledge and technical skill in Home Science education to the faculty members of Home Science in SAU's and ICAR Institutions. ICAR elevated the status of Centre of Advanced Faculty Training- Foods & Nutrition to Centre of Advanced Faculty Training-Home Science (CAFT) in May, 2010, on recognition of the specialized services delivered by CAS-ANGRAU over the past 16 years. The redefined mandate of CAFT- Home Science is to serve as a national resource and training centre for five disciplines of Home Science viz., Foods and Nutrition, Human Development and Family Studies, Family Resource Management, Apparel & Textiles and Home Science Extension and Communication. Each discipline in Home Science has dedicated its activities to achieve national and international quality and standards in food, nutrition, health security, textiles, apparels, psychology, family studies, housing and consumer safety, through its endeavour in teaching, research and extension. Faculty of Home Science in ANGRAU has extended advanced trainings for curriculum up-gradation and strengthening teaching methods and evaluation at UG and PG level. Over the years, it has been the National resource centre for dissemination of nutrition information. The policy of the faculty is to inculcate scientific spirit in home science education through teaching, research and extension activities and enhance entrepreneurial skills to generate natural opening for self employment in all the five disciplines of Home Science for better service of the community.

Objective of CAFT:

- To update the curriculum and courses of Home Science and to strengthen teaching and evaluation at UG and PG level.
- To develop quality instruction materials, manuals, multimedia, interactive study materials, digital specimen etc. as modern curricula delivery tools and materials.
- To support the government in training personnel, by disseminating Home Science information to personnel of different sectors.

Faculty: Name & Designation (as on 30.09.2011):

Name	Designation
Department of Foods and Nutrition	
Dr. Anurag Chaturvedi	Professor & Head
Dr. M.Usha Rani	Prof & Sr.Scientist, UC- AICRP, HSc
Dr. V. Vijaya Lakshmi	Professor
Dr. S. Shobha	Professor

Dr. K. Uma Devi	Professor
Dr. K. Manorama	Professor
Dr. T.V. Hymavathi	Associate Professor
Dr. K. Aparna	Assistant Professor
Mrs. T. Supraja	Assistant Professor
Dr. S. Sucharitha	Assistant Professor
Department of Resource Management and Consumer Sciences	
Dr.A Mrunalini	Prof & Sr.Scientist, TC- AICRP,FRM
Dr.Mahalakshmi V.Reddy	Prof & Head, Director - CAFT
Dr.T.Neeraja	Professor
Dr.P.Radha Rani	Associate Professor
Dr.D.Ratna Kumari	Associate Professor
Dr.V.Viyayalakshmi	Associate Professor
Department of Human Development and Family Studies	
Dr.K.Mayuri	Professor & Head, PC - NAIP
Dr. M.Sharada Devi	Professor
Dr.S.Ratna Kumari	Associate Professor
Dr.L.Uma Devi	Associate Professor
Dr.Nasreen Bhanu	Associate Professor
Mrs.T.S.Nagamani	Associate Professor
Department of Apparel and Textiles	
Dr.A.Sharada	Dean - Home Science, PC - NAIP
Dr.A.Padma	Professor & Head
Dr.D.Anitha	Associate Professor
Department of Home Science Extension and Communication Management	
Dr.Mary Swarnalatha	Professor & Head
Dr.Amalakumari	Associate Professor
Dr.Sara Kamala	Associate Professor
Dr.M.Chaitanya	Associate Professor
Mrs.Kameshwari	Assistant Professor

Human Resource Development:

Particulars of Short Courses / Training program for HRD conducted during XI plan period

S.No	Name of the Program	Period	No. of Participants		
			Internal	External	Total
1.	Food & Agribusiness Management Opportunities & Challenges	19th Sept-9th Oct., 2007	4	2	6
2.	Nutrition and Health Policies and Programmes; Present Scenario-Futuristic Approaches	24th July - 13th Aug., 2008	3	5	8
3.	Micronutrient malnutrition - Strategies for prevention & control	20th Jan - 19th Feb., 2009	2	3	5

4.	Emerging trends in nutraceuticals and dietary supplements	3rd Mar - 23rd Mar., 2010	2	8	10
5.	Newer technologies in Food Processing from production to Consumption	19th Nov to 9th Dec., 2010	2	13	15
6.	Advances in Ergonomics Research and Product Design - Application to Interior Space and Functional Needs of Indian Population	1st Feb -21st Feb., 2012			14

Infrastructure development (equipments etc.): Nil

Renovation of Lecture Room/Laboratories: Renovation of Lecture Room/Laboratories: An amount of Rs1,50,000/- was allocated for renovation of Lecture room.

Library upgraded: Total books acquired under CAFT: 45

The library facilities were improved by procuring text books in foods & nutrition worth of Rs. 30,000 to Rs. 50,000 every year till the year 2010-2011. These books have been placed at Departmental library for use of students as well as faculty.

2007 - 2008 : 10
 2008 - 2009 : 11
 2009 - 2010 : 20
 2010 - 2011 : 4
 2011 - 2012 : In process

List of Books acquired:

- Encyclopedia volumes 1 - 4
- Life Span Nutrition
- Nutrient - Gene Interaction in Cancer
- Nutrient - Drug interaction
- Nutritional aspects and clinical management of chronic diseases
- Nutrition Science
- Introduction to the Chemical Analysis of Foods
- Hand Book of Food & Nutrition
- Dietetics
- Principles of Food Chemistry

- Food Polysaccharides and their applications
- Food Packing technology handbook
- Emerging Technologies for food processing
- Modern Technology of food processing & Agro based
- Sensory Science : Principles & Application in Food Evaluation

- Extruders in Food applications
- Handbook of Food processing technology
- Food safety Quality assurance & Global trade
- Introduction to Food & Agribusiness Management
- Quality assurance for the food industry: A practical approach
- Introduction to Chemical Analysis of Foods
- Food Analysis : Theory and Practice
- HB of Analysis & Quality Control for fruit & Veg.,
- Undergraduate Instrumental Analysis
- Technology of Food preservation 4/ed
- Food processing Technology: Principles & Practice
- Introductory Practical Biochemistry
- Encyclopedia of Applied Nutrition & Health
- Food & Nutrition Education
- Nutrition Science
- Food & Health
- Nutrition Eating for Good Health
- Child Nutrition
- Laboratory Manual of Dairy Analysis
- Food Analysis
- Fundamentals of Food Processing Engineering
- Food Microbiology and Food Processing
- Food Science & Technology
- Mechanism and Theory in Food Chemistry
- The Vitamins Fundamentals aspects in Nut. 3/ed

Awards:

Name of the Award	Name of the teacher & Designation
State Level Best Teacher Award of ANGRAU in 2007	Dr. M. Sharada Devi , Professor
State level Karshaka Ratna Award by Government of Andhra Pradesh in 2008	Dr. Kamini Devi, Professor
Meritorious Teachers Award (ICAR) in 2008	Dr. S. Shobha, Professor
K G Naidu Medical Trust Award was awarded by Indian Dietetic Association, NIN in 2008	Dr.K. Aparna, Assistant Professor
Meritorious Teachers Award (ICAR) honoured by ANGRAU in 2009	Dr. D. Anitha, Associate Professor
State Level Best Scientist Award of ANGRAU in 2009	Dr. Nasreen Banu, Senior Scientist
State Level Best Teacher Award by Government of Andhra Pradesh in 2009	Dr.A.Sharada Devi, Professor

State Level Best Teacher Award by Government of Andhra Pradesh in- 2010	Dr. K. Mayuri, Professor
Best Development Psychologist Award a Prestigious National Level award in 2010	Dr. M. Sharada Devi, Professor
State Best Extension work Award by ANGRAU in 2010	Dr.M.Prasunna, Asst.Professor

Recognitions:

- The “FPO license” was awarded to the Department of Foods and Nutrition for the production of Fruit and Vegetable products for one year during 2009-10. by the efforts of Principle Investigator Dr V. Vijayalakshmi under DBT project on “Establishment of rural enterprise for tomato products by women for food and nutritional security”. FPO license for a further period of 5years has been submitted and received the sanction in the month of April 2010
- MOU with Women Development & Child and Disabled Welfare Department, Govt. of AP. With the college led to activities such as carrying out an applied research project on early developmental stimulation in their orphanage for destitute infants and young children, guest lectures to trainees of the department who will be recruited as field functionaries for Women and child development and the college will soon be involved in exclusive training programme for tribal girls to develop skills to be recruited as field functionaries

- **NAIP Research of projects**

Project 1: Value Chain in Natural dyes Dr.A.Sharada Devi, Dean of Home Science is the Principal Investigator with a budget outlay of Rs.3.47 crores It started in November 2008 and will conclude in November 2013 (5 Years)

Project 2: e – Home Science Courseware Consortium Project, Dr. K. Mayuri as Consortium Principal Investigator, Partnered by College of Rural Home Science, UAS, Dharwad and College of Home Science, GBPUA&T , Pantnagar. This Project had a budget of 292.19 lakhs. It started in November 2008 and will conclude in November 2011 (3 Years)

Under the National Agriculture Innovation Project (NAIP) on e – Home Science Courseware Consortium, course contents for the revised curriculum of 4th Dean’s committee for under-graduation are being developed by the faculty members. Teaching faculty from all the five discipline of College of Home Science, have been working from the year 2008. Till the end of 2009 -2011, e- course contents for 20 courses were developed and these are in the process of uploading in to “moodle” application. e- learning

Project 3: Millet Value chain – Creation of demand for Millets through PCS value Chain (Partner)

The project is in operation in the department of Foods and nutrition Since December 2007. The project is working in consortium approach with lead institute (Directorate of Sorghum Research Hyderabad.) and partners Viz., ANGRAU, NIN, and ITC.

- **Linkages/MOU with other organisations**

Faculty has developed linkages for various academic, research and welfare activities with various national and international organizations such as Ministry of Food Processing, - GOI, Ministry of Civil supplies and Consumer affairs BARC,

ICRISAT, NIN, CFTRI, CRIDA, IGMRI, DRR, NRCS, DOR, Food and Nutrition Board, CARE, UNICEF, NECC, NGOs, KVKs, State Govt. departments of Medical & health , Women development and child welfare, Education, Civil Supplies, Tribal welfare, Social welfare, Industries for Food and Pharma, textiles, consumer products etc.

- **Consultancy services**

- AP Foods,
- Department of Women Development and Family welfare,
- Govt of AP on design of diet & nutrition framework for child Development Centers, for the alumni,
- Entrepreneurs of Indian School of Business, Hyderabad, Bambino Industries,
- Deccan Development society etc
- Food and Civil supplies, Consumer Welfare Department

Publication*

- **International Journal**

Peter Amala Sujith.A., Yasoda Devi.P., and Hymavathi, T.V., 2010 Supercritical extraction of lutein esters from marigold flowers and their Hydrolysis by Improved saponification and enzyme Biocatalysis. *International Journal of Biological and life sciences*,6:78-86

Lakshmi Devi.N., Shobha.S & Sajid et al., Development of protein rich sorghum based expanded snacks using extrusion technology. *International Journal of food properties* (Accepted for Publication in 2011)

- **Indian Journal**

- Haritha, P and Uma Maheswari K. 2007. Effect of Processing on anti-nutritional and antimicrobial activity of Sickle Senna Seeds (Cassia Tora L.). *Legume Research* 30, (2): 108-112.
- Uma Maheswari, K. 2007. Organoleptic quality characteristics of a Hybrid variety of cowpea ' Ceylon cowpea in comparison with local variety. *Journal of Food, Nutrition and Dietetics*. 4 (2): 50-53.
- Naveen, M and Kamini Devi, 2008. Development of Acceptable Soy based Beverage using different Adjuncts & Additives". *Beverage & Food World*, 35 (1): 48-51.
- Yasoda Devi P and Vijaya Khader. 2009. Effect of Therapeutic food supplementation on severe under nutrition. *Journal of Research, ANGRAU*, 37 (1 & 2): 38-42.
- Santhi Sri Kotamamba. V and Yasoda Devi.P. 2008. Utilization of health services & immunizational status of Gramasiri families. *Journal of Research, ANGRAU*. 36 (4): 57-60.
- Narender Raju .P, Lakshmi Devi .N and Hanumantha Rao.K, 2008, Whey protein concentrate for development of high protein cake. *Indian Journal of Dairy and Bioscience*,16 (1& 2): 19-25

- Sulaxana Kumari. Lakshmi Devi. C, N., Kondal Reddy and Kamini Devi K .2009. Utilization of Whey Protein Concentrate (WPC) in Formulation and Standardization of Convenience Foods *Beverage & food world*. 36: 1
- Aparna K and Vijaya Khader. 2009. Hypoglycemic, hypercholesterolemic & hypotensive effects of ymnema sylvestre leaves in newly diagnosed type II diabetic subjects. *The Indian Journal of Nutrition & Dietetics*. 46 (8): 320-328
- Aparna K, Poshadri. A and Sumit Pandey. 2009. Diacylglyceride oil as an edible oil: A review, *Journal of Oilseeds Research*. 26 (1): 1-9.
- Aparna K and K.Manorama 2009. Effect of supplementation of Red Palmolein, iron & Vitamin C on vitamin A & iron status of adolescent girls. *Journal of Oilseeds Research*. 26 (1) : 47-49
- Mridu Narayan., Lakshmi Devi. N, Kamini Devi & K.Malla Reddy. 2009 . Utilization of Ashwagandha (*Withania somnifera*) root powder in formulation of health foods. *Beverage and food world*. 36 (1): 51-52
- Sulakshana Kumari Chauhan, N.Lakshmi Devi, Kamini Devi & Kondal Reddy. 2009. Utilization of whey protein concentrate (WPC) in formulation and standardization of convinence foods. *Beverage and food world*.36 (1): 46-50
- Aparna K, Poshadri. A and Dagadkhir.R, 2010, Speciality fats for food and dairy industry: A review, *Beverage & food world*, 37 (7) 42-44
- Poshadri.A and Aparna K. 2010. Microencapsulation Technology: A review. *Journal of Research ANGRAU*.38 (1):86-102
- Aparna K., Supraja., T and Hima Bindu., N. 2010 Vehicles for food fortification *Beverage and Food world*. 37 (1) 33-36
- Sailaja.S.A & Uma Devi.L. (2010) Perceived self efficacy & Emotional Intelligence of adolescents, *Asian Journal of Psychology & Education*,Vol.43,(3-4)
- Uma Devi.L. .2010 Perception of teachers on Early childhood Education Programme *Asian Journal of Psychology & Education*, .43,(3-4),24-33.
- Ipsita Mohanty & Uma Devi.L.. 2010. Socio personal variables and emotional intelligence of adolescents in secure attachment style, *Indian Psychological Review*, 74,(1), 29-37.
- Prashanthi.S. and Sarada Devi., M. 2010. Relationship between emotional competence and personal variables. *Journal of community guidance and research*, 27(3):387-391
- M.Sarada devi, S.Ratna Kumari & Ipsita Mohanty 2010. Effect of Training Programme on the knowledge levels of the caregivers of the orphan children *Indian Psychological Review*, Agra. 75:289-294,

- Sarada Devi.M., Ratna kumara.S and Ipsita Mohanthy 2011. Impact of developmental intervention on the motor and mental development of orphan children, *The Asian journal of psychology & Education*, Agra 44 , PP:38-44,
- Salaja. S.A and Ratna Kumari.S. 2010. A Study on Job stress of women working in call centers/BPO's. *Indian Psychological Review*. 75, Spl.Issue, ISSN 0019-6215
- Prashanthi.S. and Sarada Devi., M. 2010. Relationship between personal variables and emotional intelligence levels of married couples. *The Andhra agricultural journal*, J 57 (2) PP.196-199 Bapatla
- Vijayalakshmi.V., Age & Gender related changes in body composition in pre adolescent girls. *Indian Journal of public health research & development* (Accepted for Publication in 2011)

Books / Reports Published:

- Glimpses of Home Science Faculty
- Compendium of viable Home Science Technologies
- PG thesis abstracts from 1996 to 2007
- Compendium of Research projects , Faculty of Home Science from inception to 2007
- Compendium of viable Home Science Technologies
- Home Science Technologies for viable enterprises – 2007
- PG Thesis abstracts of faculty of Home Science 2008
- Compendia of Adhoc Research projects from faculty of Home Science (1974-2007) – 2008
- Textbook on Housing and Space Management by Renuka. S and Mahalakshmi V.Reddy, ICAR Publications Govt. of India. Edition : December, 2009
- Caregiver – Infant Interaction Manual by Dr. K. Mayuri, G. Swarupa Rani
- Caregiver – Infant Interaction Interactive CD by Dr. K. Mayuri, G. Swarupa Rani
- Lifespan development – 1 – Infancy and Early Childhood: Practical Manual – by Dr. K. Mayuri and Dr. P. Sreedevi
- Positive parenting skills – manual – Dr. M. Sarada Devi
- Educational packages of developmental stimulation (Telugu) – Dr. S. Ratna Kumari
- Manual on Activities for infants – Dr. M. Sarada Devi
- Manual on activities for toddlers – Dr. M. Sarada Devi
- Manual on Activities for Preschoolers – Dr. M. Sarada Devi
- Manual on body language – Dr. M. Sarada Devi
- Manual on effective communication skills – Dr. Sarada Devi
- Manual on Personality development – Dr. M. Sarada Devi
- Handout on “Developing Health Care Textiles with Eco-friendly Antimicrobial finish from plant Kingdom”.
- Handout on Value addition to Okra fiber”

Proceedings

- Soma Kalia, Mahalakshmi V.R. and Ratna Kumari D, 2009, “Barrier Free Features in Educational Buildings” , HWWE 2009: Ergonomics for Everyone, Proceedings of the International conference on 17th -19th December at Kolkata, India 476-481.
- Mayuri,K., and Pavitra Bhat 2010, Early Social Skills as a function of gender: Observational study of children between 3-8 years in Andhra Pradesh, India, Proceeding of the International Conference on Measuring Behaviour” August 2010, Eindhoven, Netherlands 24-28.
- Prashanthi.S. and Sarada Devi., M. 2010 Knowledge levels of caretakers and physical environment of Sishu Vihar, National conference on Managing interpersonal communication in global world. 40th year celebration of Psycholingu journal PP.36, Agra
- Dayakar. B, Patil J.V., Hymavathi, T V., Rajendraprasad, M.P., Vishala Devender and Kachui.N. 2010. Poster Abstract on Health and convenient food through innovations for sustainable food and nutritional security. Proceedings of international conference on food technology Edition II INFOTECH.228
- Hymavathi T. V, Dayakar Rao B Patil JV, Balatripurasundari, Krinanmai.E.,Spandana.S.Rathnavathi. CV., 2010 Interventions in millet processing technologies for creation of demand. Present status and future strategies, A compilation of lead presentations and abstracts of papers submitted for national seminar on millets, November 12, 2010 of DSR at NIRD, Hyderabad
- Anurag Chaturvedi, Sujatha. M., DeepthiV., Aparna K., Dilip Babu.J and Sridhar.M. 2010, “Development of shelf stable intermediate moisture carrot (*Daucas carota*) using radiation as hurdle technology”. Proceedings of 4th Indian Horticulture Congress.
- Aparna Kuna & Kamini Devi. 2010. To consume soy or not – A paradigm for health care professionals. Proceedings of 43rd Annual National Conference of Indian Dietetic Association of Dietetics – widening horizons
- Ratna Kumari S and.Salaja.S.A.2011. Relationship between women's reproductive health and household food security. National seminar cum workshop on Food and women, MGNIRSA, January 21-22, 2011
- Salaja. S.A and Ratna Kumari.S. 2011. Body Image and eating disorders: Adolescents and gender . National seminar cum workshop on Food and women, MGNIRSA. January 21-22, 2011

Manuals:

Total Manuals Developed : 30.

Manuals developed for training programmes : 22

Manuals developed for strengthening the practical component of UG & PG courses are 8 are as listed below

- Macro & Micro nutrients in human nutrition
- Foods Science (Physical and Functional properties of food constituents)

- Advances in Diet Therapy
- Practical manual of food Standards & Quality Control
- Teaching manual on Bakery & Confectionery
- Practical manual of Normal & Therapeutic Nutrition
- Manual on Hospital Placement
- Manual on Industrial Placement

News letters

Topic	Issue Editor Name & Designation	Month & Year
Processing of fruits for value addition	Dr. K. Uma maheswari, Assoc.Professor	January, 2007
Utilization of fruits & vegetables processing waste	Mrs. Kanwaljit Kaur, Asst.Professor	May , 2007
Micronutrients – Macro benefits & availability	Dr. V. Vijayalakshmi, Professor	September, 2007
Nutritional status of women across life cycle	Dr. K. Uma devi, Professor	January, 2008
Pearl Millet for Health & Nutrition	Dr. T.V. Hymavathi, Associate Professor	May, 2008
Extrusion processing technology and application	Dr. S. Shobha, Professor	September, 2008
Pro and Pre-biotics for Human Health	Dr. N. Lakshmi Devi, Professor	May , 2010
Home Science News	Dr. A. Mrunalini, Professor & Univ. Head	February, 2011

Financial Statement

Expenditure under CAFT during XI plan

Head	2007-08	2008-09	2009-10	2010-11	2011-12
Operating cost of Training	76,196-00	2,06,799-00	1,71,000-00	1,71,000-00	
Recurring Contingency	80,226-00	1,99,876-00	1,50,000-00	1,50,000-00	
Non- Recurring Contingency, T.A.	-	2,338-00	-	-	
Library	49,989-00	49,997-00	30,000-00	30,000-00	
Salaries	3,00,576-00	3,18,727-00	82,989-00	82,989-00	
TOTAL	506987	777737	433989	433989	