

**CENTRE OF ADVANCED
STUDIES**

**SEVENTEENTH ANNUAL REPORT
(2011-2012)**

Dr. (Mrs.) Mahalakshmi V. Reddy

DIRECTOR

DEPARTMENT OF FOODS & NUTRITION
POST GRADUATE & RESEARCH CENTRE
ACHARYA N.G. RANGA AGRICULTURAL UNIVERSITY
RAJENDRANAGAR: HYDERABAD – 500 030

**SEVENTEENTH ANNUAL REPORT OF
CENTRE OF ADVANCED FACULTY TRAINING
FOR THE YEAR 2011-2012 (April 2011 – March 2012)**

1. Project Title : Centre of Advanced Faculty Training.
2. Sanction No. : Proc. No. 37735/H.Sc/A1/94,
dt. 22-9-95 of APAU
3. Report Period : April 2011 – March 2012.
Report No. : XVII
4. Date of Start : 02-11-1995
5. A) Name of Institute/Station : Acharya N.G. Ranga Agricultural University
Rajendranagar, Hyderabad.
- B) Division/Department/ Section : Centre of Advanced Faculty Training
Post Graduate & Research Centre,
College of Home Science,
Rajendranagar, Hyderabad – 500 030.
6. Technical Programme
- a) Technical Programme as approved for the scheme: Appendix – I (Enclosed)
- b) Technical Programme for the next plan period : Submitted for Approval
in the year 2012-13
(Appendix II enclosed)
7. Technical Personnel employed (list of vacancies, if any)

Sanctioned Posts by ICAR: Post particulars	Posts filled	Posts to be filled
1. Steno-cum-Typist	--	One
2. AVA Operator	--	One

Technical staff employed:

Name with Designation	Date of Joining	Date of leaving
Computer Operator @ Rs 4900/- consolidated Ms. Radhika Mr.Thirupati	1.4.2011 1.1.2012	1.12.2011 31.3.2012
Attender@Rs3800/- Consolidated Mr.Raju Mr.Lakshman	1.4.2011 1.12.2011	1.1.2011 31.3.2011
Driver @ Rs4500/- Consolidated Mr.Babu	1.4.2011	31.3.2011
Project Asst.* Ms.Ramya Krishna	1.12.2011	31.3.2012
Project Asst * Ms. Sravanthi	1.12.2011	31.3.2012

* Employed for 4 months to develop materials for CAFT information from inception to till date for developing CAFT – H.Sc Web portal

8. Total outlay	:	<u>Rs. (1, 14, 67,862-70)</u>
		- Rs. 4, 56,219=20 (1995-96)
		- Rs. 9, 61,192=20 (1996-97)
		- Rs. 12, 01,649=20 (1997-98)
		- Rs. 9, 10,103=40 (1998-99)
		- Rs. 4, 86,691=75 (1999-2000)
		- Rs. 7, 03,771=30 (2000-2001)
		- Rs. 5, 28,023=90 (2001-2002)
		- Rs. 5, 14,463=75 (2002-2003)
		- Rs. 6, 32,489=00 (2003-2004)
		- Rs. 4, 75,996=00 (2004-2005)
		- Rs. 6, 45,016=00 (2005-2006)
		- Rs. 6, 79,644=00 (2006-2007)
		- Rs. 5, 06,987=00 (2007-2008)
		- Rs. 7, 77,737=00 (2008-2009)
		- Rs. 4, 33,989=00 (2009-2010)
		- Rs. 5, 26,084=00 (2010-2011)
		- Rs. 10, 27,806=00 (2011-2012)

Budget & Expenditure particulars for 2011-12:

Sl. No.	Sub head	Budget Sanctioned		Expenditure		Balance	
		Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
1.	Training Programme	3,75,000-00		3,30,893-00		44,107-00	
2.	TA / DA	30,000-00		15,076-00		14,924-00	
3.	Books	30,000-00		30,000-00		0-00	
4.	Recurring Contingencies	2,00,000-00		2,00,000-00		0-00	
5.	Staff salaries	4,00,000-00		3,01,837-00		98,163-00	
6.	Works (Minor repairs/ Renovation)	1,50,000-00		1,50,000-00		0-00	
Total Rs.		11,85,000-00		10,27,806-00		1,57,194-00	

Special Budget sanctioned for purchase of UV VIS Spectrophotometer

Sl. No	Item Purchased	Budget Sanctioned		Expenditure		Balance	
		Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
1.	UV VIS Spectrophotometer*	5,00,000-00		4,99,100-00		900-00	
Total Rs		5,00,000-00		4,99,100-00		900-00	

UV-VIS SPECTROPHOTOMETER, Thermo Scientific, Genesys 10S, WW-02654-22, Dual beam, Wavelength range, 190-1100 nm, with additional accessories, Laptop computer, HP laser printer 1020 plus, 1 pair of glass cuvettes and 1 pair of quartz cuvettes

9. Total amount spent in previous year (2010-11) : Rs. 5,26,084=00
10. Total amount sanctioned/spent during the year under report
a) Sanctioned : Rs. 11,85,000-00
b) Spent : Rs. 10,27,806-00
11. Total No. of months during the year. : 12 months (From April 2011 – March 2012)
12. Summary : Enclosed.

Signature :

Name : MAHALAKSHMI V.REDDY

Designation : PROFESSOR-CUM-DIRECTOR.

**WORK PLAN PROPOSED BY THE CENTRE OF ADVANCED FACULTY TRAINING
– HOME SCIENCE
FOR THE YEAR 2011 – 12
College of Home Science, Post Graduate & Research Centre
Rajendranagar, Hyderabad - 500 030.**

I. OBJECTIVES

- To serve as a national resource and training centre for faculty in the field of Home Science.
- To update the curriculum and courses of Home Science to strengthen teaching and evaluation at UG and PG level.
- To support the government in training personnel.
- To disseminate Home Science information to personnel of different sectors.

**II. OUTPUTS/PROGRAMMES IMPLEMENTED DURING THE YEAR 2011-12
DURING XI PLAN PERIOD**

Objective 1

To serve as a national resource and training centre for faculty in the field of Home Science in State Agricultural Universities. **(Action taken report in Pg 7 -33)**

Action Plan

A. Short courses

Conducting Training programmes in priority areas of Home Science as per the approved plan.

Training Programme was proposed to be held on 10th to 30th November 2011 but it was postponed to 1st to 21st February on the title “Advances in Ergonomics Research and Product Design – Application to Interior Space and Functional Needs of Indian Population”

B. Allocation of Seats under PG Programme

Provision of seats in M. Sc. Home Science & Food Science Technology and also Ph. D. in Home Science to outside State candidates selected through a common test conducted by ICAR/ANGRAU. (Reported Pg - 34)

C. Research (Action taken report in Pg 34 – 38)

Research proposals for XI Five year plan

1. Acceptability study on Hot Foods (Instant Mixes): A two months (April- May 2009) research study will be taken up in 3 regions of Andhra Pradesh to test the acceptability of the instant mixes (*Upma, Kichidi & Halwa*) developed by A.P. foods, Hyderabad in ICDS centers. The target groups selected will be preschool children, pregnant & lactating women. Pretested & structured schedules will be developed to collect the needed data from the target groups, Anganwadi workers & Village key personnel. Recommendations will be made after analyzing the data.
2. Consumer evaluation and commercialization of Diabetic foods – Dr. V. Vijayalakshmi-3.12
3. Development and evaluation of micronutrient fortified fruit & vegetables - Dr. T.V. Hymavathi – 3.12
4. Utilization of micronutrient encapsulated underutilized fruit and vegetable powders as natural colorant for designing value added food products - Dr. K. Uma Maheswari – 3.76

Objective 2 (Action taken report in Pg 38 – 42)

To update the curriculum and courses of Home Science and strengthen teaching and evaluation at UG and PG level.

Action Plan

The Revision of PG curriculum of Nutrition and Dietetics programme is in progress and the revised curriculum will be implemented from 2009-10 admitted batches.

Objective 3 (Action taken report in Pg 43 – 53)

To support the Government in training personnel and in implementation and evaluation of Home Science programmes.

Action Plan

Assessing and developing the training needs of the line departments (Women's Development & Child Welfare; Social & Tribal Welfare, Panchayat Raj & Rural Development) through

meetings and group discussions. Home Science information through mass media (TV, Radio and Press) for awareness creation.

Objective 4 (Reported in Pg 53 – 73)

To disseminate Home Science information to personnel of different sectors.

Action Plan

- To bring out the quarterly issue of Home science News letter for circulation among the line departments and the organizations involved in Home science related programmes.
- Forth Coming Home Science News letters
- Three issues of quarterly news letters will be coming up on latest topics which will be prepared by the staff of College of Home Science in their specialized areas.

III. EXPECTED OUTCOME BY THE END OF THE PLAN PERIOD

- Providing common resource material for teaching and evaluation of Home Science programmes at UG and PG level.
- Faculty improvement in terms of teaching, research and extension.
- Strengthening Post Graduate Education and Research in Foods & Nutrition in other State Agricultural Universities.
- Conducting need based multi centric studies to provide feed back to the planners and policy makers.

**ACTIVITIES CARRIED OUT UNDER THE
CENTRE OF ADVANCED FACULTY TRAINING – HOME SCIENCE
From April 2011 to March 2012**

INFRASTRUCTURE FACILITIES

I. Staff Recruitment

The posts of Steno-cum-typist and Projector Operator have been filled with the two temporary persons are being continued under the ICAR plan during the IX Five Year Plan and the X Five Year Plan vide F. No. 1(18)/95/CAS/HRD-II, dt. 17-09-1999 and 02-07-2001 of the ICAR.

Name with Designation	Date of Joining	Date of leaving
Computer Operator @ Rs 4900/- consolidated Ms. Radhika Mr.Thirupati	1.4.2011 1.1.2012	1.12.2011 31.3.2012
Attender @ Rs3800/- Consolidated Mr.Raju Mr.Lakshman	1.4.2011 1.12.2011	30.11.2011 31.3.2011
Driver @ Rs4500/- Consolidated Mr.Babu	1.4.2011	31.3.2011
Project Asst.* Ms.Ramya Krishna	1.12.2011	31.3.2012
Project Asst * Ms. Sravanthi	1.12.2011	31.3.2012

*Consolidated pay for contractual service

II. Civil Works

The Centre of Advanced Studies in Foods & Nutrition presently has the following facilities.

Seminar hall/Lecture hall*

Conference hall

Computer room

Library room

Office room

Class rooms

Store room

Equipment room/Laboratory

Museum Hall

Educational Technology Cell (ETC)

* Renovated and refurnished with the fund allocated in the budget of 2011-2012

III. Books Purchased:

- ♣ Human Factors and ergonomics in Consumer Product Design Vol-1-2
- ♣ Fundamentals of Lighting 2/ED
- ♣ Ergonomics for children Designing products of places Toddlers to teens
- ♣ Place Advantage Applied Psychology for Interior Architecture
- ♣ Building Systems for Interior Designers
- ♣ Human Factors and ergonomics in Consumer Product Design methods & techniques
- ♣ Event Planning and Management
- ♣ Product design and Development 4/E
- ♣ Design Management Managing Design Strategy Process & implementation
- ♣ Creative Research: The Theory and Practice of Research for the Creative Industries
- ♣ Event Management
- ♣ An autobiography of M.K. Gandhi

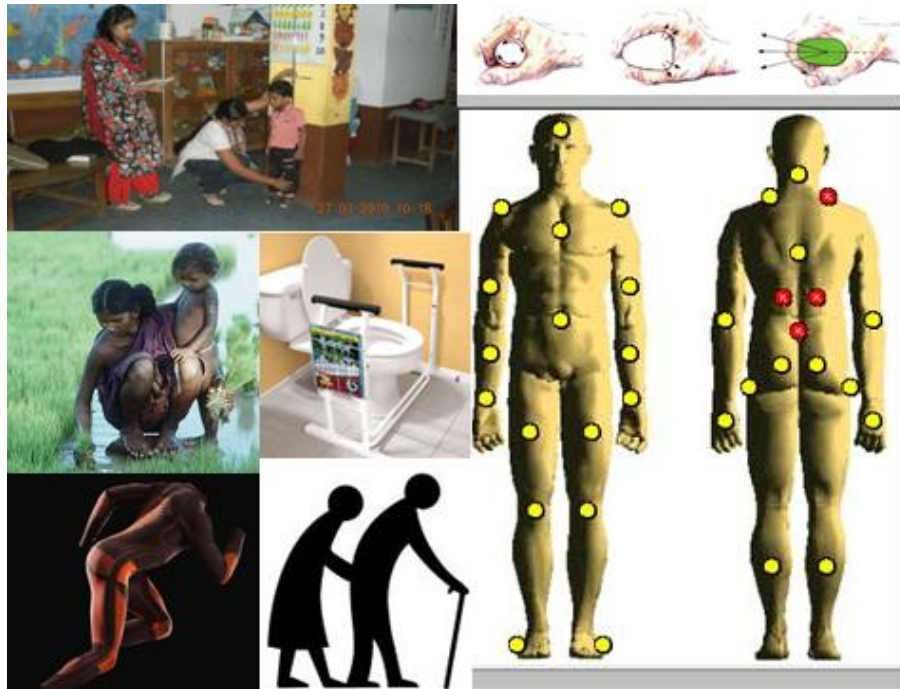
IV. ACADEMIC ACTIVITIES

OBJECTIVE I A. Short courses

To serve as a National resource and training centre for faculty in the discipline of Home Science by conducting summer institutes, short courses and training programmes.

The Centre of Advanced Studies in Home Science in Faculty of Home Science, Acharya N. G. Ranga Agricultural University, Hyderabad has been functioning as a resource and training centre for the Home Science for State Agricultural Universities since 2010 after serving as resource center in Nutrition for 15 years i.e from 1995-2010. Organizing advanced training programmes (21 days duration) is one of three major Objective of this centre. Till date 22 training programmes on different aspects of Food and Nutrition were conducted. During the reporting year i.e., 2011-12, the 23rd training programme entitled “**Advances in Ergonomics Research and Product Design – Application To Interior Space And Functional Needs Of Indian Population**” during the period of **1/2/2012 to 21/2/2012**, with Course Director Dr. Mahalakshmi V.Reddy and **Course** Coordinators, Dr. D.Anitha & Dr. K. Mayuri was conducted at Centre of Advanced Faculty Training in Home Science, PGRC, Rajendranagar. Following is the training report.

**Report of the 23rd Training Programme on
ADVANCES IN ERGONOMICS RESEARCH AND PRODUCT DESIGN –
APPLICATION TO INTERIOR SPACE AND FUNCTIONAL NEEDS OF
INDIAN POPULATION
From 1st to 21st, February 2012**



Dr. Mahalakshmi V.Reddy
Programme Director, CAFT & Course Director

Dr.D.Anitha
Course Coordinator

Dr.K.Mayuri
Course Coordinator



**Organized by
Centre of Advanced Faculty Training in Home Science
College of Home Science,
Post-Graduate & Research Centre,
Acharya N.G. Ranga Agricultural University
Rajendranagar : Hyderabad – 500 030**

ACKNOWLEDGEMENT

The Course Director and Course Coordinators of the Center for Advanced Faculty Training in Home Science of Acharya N.G.Ranga Agricultural University, gratefully acknowledge the financial support provided by the Indian Council for Agricultural Research (ICAR) for conducting the 21 days training programme titled “Advances in Ergonomics Research and Product Design - Application to Interior Space and Functional Needs of Indian Population” from 1st February to 21st February 2012.

Our special thanks to all the resource persons from the fields of Ergonomics, Product Design and Anthropometry, Physiology and Occupational Biomechanics, Architecture & Interior Design, Functional Clothing from IIT – G, IIT - B, DRDO, New Delhi, RECOUP, Bangalore, CITD, JNTU, OU & CHSc – ANGRAU for their valuable contributions.

We express our heartfelt thanks to Dr.Debkumar Chakrabarthy, Prof & Head, Dept. of Design, IIT-Gauwhati, Dr.G.G.Ray, Director, Industrial Design Center, IIT – Bombay, and Dr.B.K.Chakravathy, Professor, Industrial Design Center, IIT – Bombay, Dr.D.Majmdhar, Associate Director, DRDO, New Delhi, Mr.Aheesh & Ms.Jeena Jose, RECOUP, Bangalore, Dr.Hyavadhana, Professor, Dept. of Textiles Technology, OU, Dr.Sudhakar, Prof & Head, and Mr.Aditya Singaraju, Professor, School of Architecture, Dr.P.Geervani, Former VC of Mahila University, Tirupathi and other scientists from ANGRAU for their cooperation to deliver valuable lectures and skill training through workshop and practical sessions & sharing their wide experience with participants.

We also express our cordial thanks to Central Institute of Tool Design and AICRP – FRM, CHSc, ANGRAU for exposing participants to product design laboratories and Design Software. Our deep felt gratitude to Boys Town – Industrial Training Center, Homes for Aged, Prince Esin Montessori School, for providing access to participants to study real life situation of population exposed to occupation risks and ergonomic injuries in their respective institutions.

We thank the Director, DOR for providing comfortable lodging and boarding facilities for the participants. Our special thanks to faculty members of PGRC & AICRP – H.Sc, R’Nagar for co-operation and support. Our special thanks to Organising Committee members and Post-graduate students the Department of Resource Management and Consumer Sciences, Human Development and Family Studies and Apparel and Textiles for their support in organizing the event. We sincerely thank the Non teaching staff of CAFT, PGRC and CHSc for the constant help rendered through the training period.

Dr.MAHALAKSHMI V.REDDY

Course Director

Dr.D.Anitha
Course Coordinator

Dr.K.Mayuri
Course Coordinator

CONTENTS

List of Participants

Host Faculty

Guest Faculty

Training Programme Schedule

Report on the course content and execution

Pictorial documentation of sequence of events

Knowledge assessment

Programme evaluation schedule

LIST OF PARTICIPANTS

S.No	NAME	DESIGNATION & ADDRESS
1.	Dr. ANJALI MATHUR	Assistant Professor , Department of Human Development Family Studies, Sam Higginbottam Institute of Agriculture Technology & Science, (SHIATS) Allahabad- 211007 Uttar Pradesh
2	Dr. ANITA RANI	Assistant Professor , Department of Apparel & Textiles, College of Home Science, G.B. Pant University of Agriculture & Technology (GBPUAT), Pantnagar – 263145 Uttarakhand
3	Ms. BEAUTY GOGOI	Subject Matter Specialist (H.Sc – Child Development), Krishi Vignan Kendra (KVK) Jorhat, Assam
4	Dr. JAYSHREE R. RODGE	Assistant Professor Dept. of Family Resource Management, College of Home Science, Marathwada Agricultural university (MAU), Parbhani – 431401, Maharashtra
5	Dr. NALLAKURUMBAN.B	Assistant Professor Department of Family Resource Management, Home Science College and Research Institute, TNAU, Madurai – 625 104. Tamilnadu
6	Dr. NASREEN BANU	Sr.Scientist - Child Development, AICRP – H.Sc Post Graduate & Resource Center, ANGRAU Rajendranagar, Hyderabad – 500 004 Andhra Pradesh
7	Mrs. NEELA RANI. R	Assistant Professor Extension Education Institute (EEI) Rajendranagar, Hyderabad – 500 030 Andhra Pradesh
8	MRS. NISHA CHACKO	Assistant Professor Department of Family Resource Management, Sam Higginbottam Institute of Agriculture Technology & Science, (SHIATS) – Allahabad 211007 Uttar Pradesh
9	DR.P.RADHA RANI	Associate Professor Dept. of Resource Management and Consumer Sciences, College of Home Science, Saifabad A.N.G.R. Agricultural University (ANGRAU) Hyderabad -500004. Andhra Pradesh

10	Dr. RANIMA SAIKIA	Assistant Professor Dept. of Family Resource Management, College of Home Science, Sangsanggre, Central Agricultural University (CAU) West Garo Hills, Tura -794005, Meghalaya
11	Er. RAVINDRA S. YARNAL	Assistant Professor College of Agril. Engg. University of Agricultural Sciences, (UAS) Raichur, Karnataka – 584102
12	SADHANA HARIHARARAO UMRIKAR	Asst. Professor Department of Family Resource Management, College of Home Science, Marathwada Agricultural university (MAU), Parbhani – 431401 Maharashtra
13	Er. SUSHILENDRA	Assistant Professor, College of Agril. Engg. University of Agricultural Sciences (UAS), Raichur – 584 102 , Karnataka
14	DR.Y.VIJAYA LAKSHMI	Associate Professor, Dept. of Resource Management and Consumer Sciences, College of Home Science, Saifabad A.N.G.R. Agricultural University (ANGRAU) Hyderabad -500004. Andhra Pradesh

HOST FACULTY

DEPARTMENT OF RESOURCE MANAGEMENT AND CONSUMER SCIENCES	
Dr.Mahalakshmi V.Reddy	Professor & Head , CAFT Director cum Course Director
Dr.A.Mrunalini	Univ. Head & Professor Technical Coord. – AICRP -FRM
Dr. T.Neeraja	Professor
Dr. P.Radha Rani	Associate Professor
Dr.D.Ratna Kumari	Associate Professor
Dr. Y.Vijayalakshmi	Associate Professor
DEPARTMENT OF HUMAN DEVELOPMENT AND FAMILY STUDIES	
Dr. K.Mayuri	Professor & University Head
Dr. M.Sharada Devi	Professor
Dr. S.Ratnakumari	Associate Professor
Dr. Nasreen Banu	Associate Professor
Dr. L.Uma Devi	Associate Professor
Mrs. Nagamani. T	Associate Professor
DEPARTMENT OF APPAREL AND TEXTILES	
Dr.A. Sharada Devi	Dean, Faculty of Home Science
Dr. A.Padma	Professor & University Head
Dr.D.Anitha	Associate Professor

GUEST FACULTY

S.NO	NAME	CONTACT ADDRESS
1	Ar .Aditya Singaraju	Professor, School of Planning and Architecture Jawaharlal Nehru Technological University, Masabtank,Hyderabad
2	Mr. Ajeesh P S	Senior Faculty - MPT –Orthopedics Musculoskeletal Disorders and Sports RECOUP, Bangalore
3	Dr.B.K.Chakravarthy	Professor , Industrial Design Center, Indian Institute of Technology Powai, Bombay
4	Dr.Debkumar Chakrabarthy Executive Member, Indian Society of Ergonomics	Professor Dept. of Design, Indian Institute of Technology Guwahati, Assam
5	Dr. Garg Ray President, Indian Society of Ergonomics	Professor cum Director, Industrial Design Center, Indian Institute of Technology Powai, Bombay
6	Dr.P.Geervani	Former Vice Chancellor of Mahila University, Thirupati, Andhra Pradesh , Hyderabad
7	Dr.J.Hayavadana,	Professor, Dept.of Textile Technology, Osmania University, Hyderabad
8	Ms Jeena Jose	Senior Faculty -MPT — Orthopedics Musculoskeletal Disorders and Sports), RECOUP Bangalore
9	Dr Majumdar. D General Secretary, Indian Society of Ergonomics	Director, Ergonomics group, Defence Institute of Physiology and Allied Sciences, DRDO, Lucknow Road Timarpur, Delhi
10	Prof.V.S.Rao,	Director , Birla Institute of Technology-Pilani Hydearabad Campus, Andhra Pradesh
11	Ar.Sudhakar,	Professor& Head, School of Planning and Architecture , Jawarhalal Nehru Technological University, Masabtank, Hyderabad

TRAINING PROGRAMME SCHEDULE

S. No.	Date	Time	Topic
1.	01- 02-12 Wednesday	09.30 AM – 10.00 AM	Registration
		10.00 AM– 10.30 AM	Pre-Evaluation of Training
		10.30 AM– 11.30 AM	Inauguration
		12.00 Noon - 01.00 PM	<u>Keynote Address - “Ergonomics and Today’s Relevance”</u> Dr. Debkumar Chakrabarti , Prof & Head, Dept. of Design, IIT - Guwahati
		02.00 PM – 02.30 PM	Orientation to CAFT in Home Science and 21 Days Training Dr. Mahalakshmi V. Reddy, Director- CAFT
		02.30 PM – 03.30 PM	<u>Application of Ergonomics in Developing Countries</u> Dr.A Mrunalini, University Head , Dept. of RMCS
		03.30 PM - 05.00 PM	<u>Anthropometry and its Importance in Product Design and Work Space</u> Dr.Debkumar Chakrabarti & Dr.Mahalakshmi V.Reddy
2.	02- 02-12 Thursday	09.30 AM – 11.00 AM	<u>Ergonomics - A Guide to Measure Health and Safety</u> Dr. Mahalakshmi V. Reddy
		11.30 AM – 01.00 PM	<u>Ergonomics and Product Design Issues</u> Dr.Debkumar Chakrabarti
		02.00 PM – 05.00 PM	Conceptualizing Product Design and Concept Building - Hands on Practical Assignment Session Dr.Debkumar Chakrabarti & Dr.Mahalakshmi V.Reddy
3.	03- 02-12 Friday	09.30 AM – 11.00 AM	<u>Ergonomic Design: An Approach to System Design,</u> Dr.G.G.Ray, Professor & Head, Dir. Industrial Design Center, IIT Powai, Bombay
		11.30 AM – 01.00 PM	<u>Collaborative Innovation Methodology,</u> Dr.B.R.Chakravarthy, Professor , Dept. of Industrial Design, IIT Powai, Bombay
		02.00 PM – 03.30 PM	<u>Workshop on Design : Problem Solving 1,</u> Dr.G.G.Ray & Dr.Ratna Kumari
		03.30 PM – 05.00 PM	<u>Workshop on Design : Problem Solving 2,</u> Dr.B.R.Chakravarthy & Dr.Ratna Kumari

S. No.	Date	Time	Topic
4.	04- 02-12 Saturday	09.30 AM – 11.00 AM	<u>Innovation Case Studies / Innovation by Design</u> , Dr.B.R.Chakravarthy
		11.30 AM – 01.00 PM	<u>Application of Principle of Biomechanics in Design</u> , Dr.G.G.Ray
		02.00 PM – 03.30 PM	<u>Workshop on Design : Problem Solving - 3</u> , Dr.G.G.Ray and Dr.B.R.Chakravarthy & Dr.Ratna Kumari
		03.30 PM – 05.00 PM	<u>Workshop on Design : Problem Solving 4 – Presentation & Discussions</u> , Dr.G.G.Ray and Dr.B.R.Chakravarthy & Dr.Ratna Kumari
5.	05- 02-12, Sunday		
6.	06-2-2012 Monday	09.30 AM – 11.00 AM	<u>Clothing of Physically Challenged</u> , Dr.D.Anitha, Head, Dept of APTX
		11.30 AM – 01.00 PM	<u>Human Factors in the Design of Functional Clothing</u> , Dr.J Majumdar, Assoc. Director, DRDO, New Delhi
		02.00 PM – 03.30 PM	<u>Design and Development of Functional Clothing</u> , Dr.A.Sharada, Dean, Faculty of Home Science
		03.30 PM – 05.00 PM	<u>Environmental Ergonomics</u> Dr.J Majumdar, Assoc. Director, DRDO, New Delhi
7.	07-2-2012 Tuesday	09.30 AM – 11.00 AM	<u>Product Design – A Strategy to be in the Changing Market</u> , Dr.J.Hayavadana, Prof, Dept.of Textile Technology,OU
		11.30 AM – 01.00 PM	<u>Safety Concern in Design of Products for Personal Protection</u> , Dr.J Majumdar, Assoc. Director, DRDO, New Delhi
		02.00 PM – 03.30 PM	<u>Practical Exposure to Ergonomic Assessment Tools and Techniques for Assessment of Human Safety and Endurance</u> , Dr.J Majumdar & Dr.A.Mrunalini
		03.30 PM – 05.00 PM	<u>Functional Clothing for People with Special Needs - Skill Training - Practical Session</u> , Dr.D. Anitha, Associate Professor, Dept of APTX
8.	08-2-2012 Wednesday	09.30 AM – 11.00 AM	<u>Qualitative and Quantitative Techniques for Ergonomic Assessment in Agriculture and Allied Occupations</u> , Dr.A.Mrunalini, AICRP – Technical Coordinator - FRM
		11.30 AM – 01.00 PM	<u>Recent Developments in the Field of Home Science with Special reference to Ergonomics and Product Design</u> , Dr P Geervani, Former V C, SPMU, Tirupathi
		02.00 PM – 05.30 PM	Visit to Boys Town, Industrial Training Center

S. No.	Date	Time	Topic
9.	09-02-2012 Thursday	09.30 AM – 11.00 AM	<u>Ergonomic Methods to Assess Levels of Musculoskeletal Discomfort Among Workers: NIOSH Discomfort Surveys, University of Michigan Upper Extremity Questionnaire (UMUEQ), Cornell Musculoskeletal Discomfort Survey, Nordic Musculoskeletal Questionnaire (NMQ),</u> Mr. Ajeesh P S (MPT – Orthopedics, RECOUP)
		11.30 AM – 01.00 PM	<u>Psychosocial Questionnaire: Work Style Questionnaire, Niosh Generic Job Stress Questionnaire,</u> Ms Jeena Jose, (MPT – Orthopedics, RECOUP)
		02.00 PM – 03.30 PM	<u>Postural Evaluation Tools: Quick Exposure Checklist (QEC), Ovako Working Posture Analyzing System (OWAS), Concise Back Screening Instrument (CBSI), - Practical session</u> Mr. Ajeesh & T.Neeraja, Professor Dept of RMCS
		03.30 PM – 05.00 PM	<u>Postural Evaluation Tools: Rapid Upper Limb Assessment (RULA), - Practical session</u> Ms Jeena Jose & T.Neeraja, Professor Dept of RMCS
10.	10-2-2012 Friday	09.30 AM – 11.00 AM	<u>Measurement of Work Effort and Fatigue: Borg Ratings of Perceived Exertion Scale, Hand Activity Level (HAL) Rapid Entire Body Assessment (REBA)</u> Mr. Ajeesh P S
		11.30 AM – 01.00 PM	<u>The Strain Index and Snook Tables for Maximum Weight</u> Ms Jeena Jose
		02.00 PM – 03.30 PM	Practical session on the use of Ergonomic evaluation tools 0 REBA, Strain Index, Snook tables Mr. Ajeesh P S and Ms Jeena Jose & Dr.T.Neeraja
		03.30 PM – 05.00 PM	<u>Methods for Assessing Back Injury Risks: Revised NIOSH Lifting Equation - Practical session</u> Mr. Ajeesh P S and Ms Jeena Jose & Dr.T.Neeraja
11	11-2-2012 Saturday	Visit to Central Institute of Tool Design, Balanagar, Hyderabad - Guest Lectures, Tour CITD & Demonstration of Product Design Soft ware	
12	12-2-2012, Sunday		
13.	13-2-2012 Monday	09.30 AM – 11.00 PM	<u>Senior Citizens - Product Design and Safety,</u> Dr.D.Ratna Kumari, Associate Professor, Dept. of RMCS
		11.30 AM – 01.00 PM	<u>Senior Citizens - Living Environment and Safety Issues ,</u> Dr. S. Ratna Kumari, Assoc. Prof, Dept. of HDFS
		02.00 PM – 05.00 PM	Visit to Senior Citizen Home Dr. S. Ratna Kumari, Assoc. Prof, Dept. of HDFS

S. No.	Date	Time	Topic
14.	14-2-2012 Tuesday	09.30 AM – 11.00 AM	<u>Ergonomics and Safety Issues in Indoor and Outdoor Playground Equipment for Children,</u> Dr L Uma Devi, Assoc. Prof, Dept. of HDFS
		11.30 AM – 01.00 PM	<u>Musculoskeletal Disorders in Different Occupations and Risk Factors</u> Dr. T.Neeraja, Professor Dept of RMCS
		02.00 PM – 05.00 PM	Visit to Princess Esin Pre-School Environment Dr L Uma Devi, Assoc. Prof, Dept. of HDFS
15.	15-2-2012 Wednesday	09.30 AM – 11.00 AM	<u>Ergonomics in the Design of Public buildings - School Environment</u> Dr.Mahalakshmi V. Reddy, Prof & Head,Dept. of RMCS
		11.30 AM – 01.00 PM	<u>Ergonomics and Safety Issues in Barrier-Free Environment</u> , Ar. Sudhakar, Prof & Head, SPA, JNTU
		02.00 PM – 03.30 PM	<u>Visual Ergonomics and Safety Issues,</u> Dr. T.Neeraja, Professor Dept of RMCS
		03.30 PM – 05.00 PM	<u>Ergonomics and Safety Issues in Residential Buildings and Multi-Storied Apartments,</u> Ar. Aditya, Asst. Prof. SPA, JNTU
16.	16-2-2012 Thursday	09.30 AM – 01.00 PM	<u>Appraisal to Ergonomic Checklists for Different Work Situations / Spaces,</u> Dr.D. Ratna Kumari
		11.30 AM – 01.00 PM	<u>Development of Ergonomic Check Points for Different Public Building Space - Workstation , Nursery Schools, Weaving Units,</u> Dr. D. Ratna Kumari, Associate Professor, Dept. of RMCS
		02.00 PM – 05.00 PM	Group Discussion – Human Safety Issues in Different Occupations, Dr.Mahalakshmi V. Reddy, Prof & Head,Dept. of RMCS
17.	17-2-2012 Friday	09.30 AM – 01.00 PM	<u>Development of Ergonomic Check Points for Functional Space of Physically and Visually Challenged</u> Dr. D. Ratna Kumari, Associate Professor, Dept. of RMCS
		02.00 PM – 05.00 PM	<u>Development of Ergonomic Check Points for Different Private Building Spaces Like Kitchen, Bath and WC,</u> Dr. D. Ratna Kumari, Associate Professor, Dept. of RMCS
18.	18-2-2012 Saturday	09.30 AM – 01.00 PM	Group Project - Work Space / Product Design and Development, Dr.Mahalakshmi V. Reddy, Prof & Head,Dept. of RMCS
		02.00 PM – 05.00 PM	Group Project - Work Space / Product Design and Development, Dr.Mahalakshmi V.Reddy, Prof & Head,Dept. of RMCS

S. No.	Date	Time	Topic
19	19.2.2012 Sunday		
20	20.2.2012 Monday – Public Holiday (Sivarathri) - Project completion and PPT presentation		
21.	21-2-2012 Tuesday	09.30 AM – 12.00 Noon	Presentation of Group Projects Dr.Mahalakshmi V. Reddy, Dr.Mayuri , Dr.Anitha Training Co-ordinators
		12.00 AM – 01.00 PM	Post - Evaluation of Training, Dr.T.Neeraja
		02.00 PM – 04.00 PM	Valedictory, Distribution of Certificates of Participation

Report on the course content and execution

The Department of Resource Management and Consumer Sciences, Faculty of Home Science, Acharya N.G.Ranga Agricultural University in collaboration with the Departments of Human Resource Management and Apparel and Textiles proposed 21 days training under Center for Advance Faculty Training in a frontier area of Home Science - “Ergonomics”

Ergonomics is the subject that defines the law of work. Human factors and anthropometry play an important role in performing work. The design of product design, work station, living environment, office space design, clothing design do contributes to health and safety of the users who represent diversified population of young, aged, healthy, sick, abled and challenged, performing white collar desk jobs in sitting posture and those working in manual works in industries and agriculture and allied activates etc. Hence the role of users in the design of products, and work environment cannot be ignored. Also with the advancement in science and technology and industrialization, market is dumped with a wide variety of products. It throws big challenge for the user to be conscious of choices as wrong choice can make or mar the health and safety of the user.

Importance of these are strengthened through Home science education at under-graduate, post-graduate studies and research activities of the dept. of RMCS, APTX, HDFS. There are basic and advance courses like Housing and space management, Human energy management, Interior design, Functional clothing, Child care and elderly environment, Functional environment for differently-abled and Consumer products design. Hence this 21 days training on “Advances in Ergonomics Research and product design – Application to interior space and functional needs of Indian population” was proposed in the frontier area to strengthen knowledge and skill in the faculty members SAU faculty.

Objectives of the Training

- To create understanding on the changing space and functional needs of Indian population in residence and commercial Interior spaces; rural farm, allied farm activities, entrepreneurial functions and processes; special needs of population such as physically and visually challenged geriatrics with differential limitations of body, space and functioning capacities.
- To provide an opportunity to analyze and evaluate the products and Interiors available through advanced lab and field approaches in ergonomics.
- To generate skills on designing products and interior spaces applying participatory management techniques with clients or stake holders and using advanced computer software’s.

Profile of Participants

This programme started with the enrolment of 14 participants from different state agricultural universities like Central Agricultural University, Tura, Meghalaya, Assam Agricultural University-Jorhat, G.B.Pant University of Agri. & Technology, Pantnagar, Uttaranchal, San Higginbotham Institute of Agri Tech. & science, Allahabad, Uttar Pradesh, Marathwada Agricultural University, Parbhani, Maharashtra, University of Agricultural Sciences, Raichur, Karnataka, Tamil Nadu Agricultural University, Madhurai, Acharya N.G.Ranga Agricultural University, Hyderabad, Andhra Pradesh, AICRP – H.Sc ANGRAU and EEI, ANGRAU. The

group consisted of faculty members from different disciplines. Out of the 14 participants 2 were Agricultural engineer, 3 were from Human development and Family Studies, one was from Apparel and Textiles, one another from H.Sc Communication Management and the rest were from Resource Management and consumer Sciences Department. All the 10 outstation participants were provided accommodation in DOR guest house. At the time of registration participants are provided with the learning kit and hand out to experience the sequence of events from beginning to end of the programme.

Report of the Inaugural Function

The Inaugural Function of the ICAR sponsored 21 days training was organized by the Department of Resource Management and Consumer Sciences in collaboration with the Department of Apparel and Textiles and Human Development and Family Studies on the title **‘Advances In Ergonomics Research And Product Design – Application To Interior Space And Functional Needs Of Indian Population’**, was held on 1st February, 2012 at PG & RC, Rajendranagar, ANGRAU, Hyderabad.

The programme started with the ‘Lighting the Lamp’ by the chief guest Sri V. Nagi Reddy, IAS, Principal Secretary to Agriculture & Cooperation, Govt. of A.P & Vice-chancellor, ANGRAU, Guest of Honor Dr Debkumar Chakrabarthy, Professor & Head, Department of Design, IIT, Gauwhati, Assam and Dr P Geervani, Former V C, Sri Padmavathi Mahila University, Tirupathi and Nominated Member ICAR and other dignitaries. Dr A Mrunalini, University Head, Department of Resource Management and Consumer Sciences, College of Home Science, Hyderabad, welcomed the gathering. Dr.Mahalakshmi V.Reddy CAFT Director and Course Coordinator appraised the trainees from State Agricultural Universities and august gathering on the role of CAFT-H.Sc in organizing 21 day training programme on frontier areas, relevance of theme – Ergonomics for Health and Safety’ in today’s context and scheme of imparting training and the methodology for implementation of training.

The Chief Guest, Vice-Chancellor of ANGRAU of the function in his address expressed that the theme ‘Ergonomics’ is of great relevance to agricultural universities who are serving larger section of population. He emphasized that Home Science education has a wider perspective and scope for application beyond the home and hence it is time to change the nomenclature to suit its multidisciplinary nature and wider application prospects and suggested the title as “Community Science & Technology”. He stated that ergonomics play a significant role in improving energy intensive farming operations for increased returns. He stressed on the need for the designers of agricultural farm tools and implements to focus on ergonomic issues and opined that it is necessary to extend training in ergonomics to them as this would this would benefit a larger section of farming population.

Dr Debkumar Chakrabarthy, Guest of Honor, in his key-note address focused on the function of ergonomics in the design. He equated the term ‘Design’ to ‘grammar’ in a sentence and said that design is part of everything and everywhere and stressed on well designed product and environment is essential for better quality of life, safety and health of everyone.

Dr P Geervani, Guest of Honor highlighted the scope of Department of Resource Management and Consumer Sciences in the areas - event management, hospital management, institutional management, human energy management and interior space management where the present course is adequately taking care of some of these issues. She also suggested that enough

importance should be directed towards housing research for providing ergonomically compatible environment especially for women.

Dr A Sharada Devi, Dean of Faculty of Home Science, ANGRAU, stressed on the importance of ergonomics in the design of clothing and said that clothing is part of the intimate environment, hence its comfort and workability to different occupations and differently-abled population is crucial. She opined that people involved in construction work, brick manufacture, pesticide spraying are exposed to occupational risk hazards and there is a need to focus research on cost-effective protective clothing with due importance to ergonomics.

The programme was concluded with the proposal of vote of thanks by Dr.T.Neeraja, Professor, Department of Resource Management and Consumer Sciences. (Insert Picture)

Execution of the Training

In the first week of the training programme participants were exposed to basics and advanced ergonomic concepts – Issues contributing to health and safety, occupational health issues, body's response to work & work environment, aspects of Ergonomics and Product design, through lectures, interactive sessions, workshops for concept building and skill training.

These were delivered by faculty members of ANGRAU and experts in the field of design from different parts of the country like Prof.Dr.Debkumar Chakrabarthi IIT,Gauwhati, Prof.Dr.G.G.Ray and Dr.B.K.Chakravathy from IIT, Bombay, Dr.D.Majmdhar from DRDO, Mr.Ajeesh and Ms.Jeena Jose from RECOUP, Bangalore and also local experts from Osmania university – Prof. Hayavadana from Textiles Technology, Prof. Ar. Sudhakar, Prof & Head, SPA, JNTU, Ar. Aditya, Asst. Prof. from School of planning and architecture, JNTU were invited to deliver lectures and to conduct. These were mind-boggling and thought provoking sessions.

During second week participants were taken for field visits to expose participants for evaluation of real life situations to understand the missing link between the user and environment and exposure to basic and advanced methodologies for assessment of workers discomfort, strain, stress and injuries. They had hands on experience in the use of ergonomic equipment, tools and software for measuring ergonomic injuries during physical and mental work like stress and strain, use of ergonomic scales, guidelines and check points for assessing the problems and evolving solutions.

In the third week, group activities were planned to use the theoretical knowledge and skill training on assessing product safety, designing products, evolving ergonomic checkpoints for work space safety and health.

To give practical exposure to concept building and design ideation, group projects were given to understand the intricacies in the design of products and work stations to meet the needs of common man. Project 1 was on designing user friendly liquid consuming containers used by users for different age group and purposes.

The second project was on designing products that missed the link between user and use. Bank locker access ladder, Adjustable multipurpose handle for broom, protective clothing for farmers, Furniture for pre-school children

The third project was on designing environment – kitchen for elderly, workstation for dress designer, barrier-free toilet and washroom for wheel-chair dependant.

Each participant took active interest to evolve solutions to selected problem and the outcomes of their work are included in the later part of the report.

Course Evaluation Report

An attempt was made to understand the impact of training on gain of knowledge of participants. Before the commencement of the programme a pre evaluation was done. The pre evaluation proforma consisted of 20 questions covering the various areas of ergonomics and its application in product design and interior space planning. The participants score ranged between 5 and 13. Majority of the respondents scored 40 percent of the marks.

The post evaluation proforma consisted of 20 questions covering various topics dealt in the training. The questions were framed to elicit the knowledge and skills of the participants in the application of ergonomic principle in product designing and interior space planning.

Table 1. Scores of the participants before and after training (n=14)

Scores	< 20	20-40	40-80	.>80
Before	50%	50%	-	-
After	-	-	25%	75%

The participants score ranged between 14 and 18. Majority of the respondents scored above 80 percent. The aim of the training was to impart knowledge and skills related to ergonomic research in product design and interior space planning was achieved.

Extent of Satisfaction with Physical Arrangements: Majority of the respondents were very well satisfied with the physical arrangements like food, accommodation, transport and hospitality. Only 20 percent of the respondents were partially satisfied with the food. Cent percent of the respondents were satisfied with the topics covered in the winter school, methodology adopted for teaching, practical exposure and behavior and style of teachers.

Topics of Interest: Majority felt that the topics covered in the training like ergonomics and product design issues, ergonomic design: an approach to system design, collaborative innovative methodology environmental ergonomics, musculoskeletal disorders and risk factors were very useful to apply them practically. Topics such as anthropometry and its application in product and work space design, application of principles of biomechanics in design, safety concerns in product design were stated to be very important for understanding the concept of design. Methodologies to assess musculoskeletal disorders, postural risk factors, work effort and fatigue were some of the topics liked by majority of the respondents.

Practical Exposure: Respondents were satisfied with the practical exposure given during the training. Majority of the respondents felt that their exposure to industries such as Central Institute of Tool Design, Boys Town Industrial Taining Center, Home for the Aged, Prince Esin

Nursery were an eye-opener to real life problems of different sections of population and exposure to ergonomic tools, software and practical exposure to ergonomic evaluation methodologies were found to be useful part of the training.

Satisfaction with Self Participation: All the participants were always satisfied with the amount of the participation in most of the discussions towards the end of the each lecture.

Duration: Participants preferred these types of programmes during semester break.

Overall Organization: Majority felt that the training was well organized and gave opportunity to interact with resource persons from repeated institutes and pioneers in the field of ergonomics.

KNOWLEDGE ASSESSMENT

PRE AND POST ASSESSMENT SCHEDULE

I. GENERAL INFORMATION

1. Name (IN BLOCK LETTERS) : _____
 2. Designation : _____
 3. Age : _____
 4. Sponsoring Institution : _____
 5. Field of Specialization : _____
6. Number of years of experience: Teaching____: Research____: Extension____

II. KNOWLEDGE ON SUBJECT OF TRAINING

Fill in the blanks with most appropriate answer:

1. A division of anatomy that provides data about body size and measurements like height, reach etc. is called _____.
2. Feeling of heaviness of eyelids while reading is a _____ symptom of visual stress.
3. The anti-contamination suit protects against _____ type of radiation.
4. Bending, stooping, kneeling or squatting can cause pain in _____.
5. Hip breadth is used as a reference in establishing seat _____.
6. Toys made of fabric should be labeled as _____.
7. To create an appropriate balance between the requirements of work and capacity of working person is the basic principle of _____.
8. Maximum acceptable weight of load for lifts and carriers for a worker can be decided by referring to _____ tables.
9. Head –impregnated vinyl is commonly used in _____ protective clothing.
10. The imbalance between demands on a person and his resources to meet those demands results in _____.

11. When the worker needs to work overhead with both the arms raised above shoulders, the probability of developing pain in _____ is higher.
12. Warning sign wording should be in black lettering on a _____ colour background.
13. Painted toys should be free from _____ metal.
14. While skeletal system gives supports to the body the muscular system helps in maintaining body _____.
15. The main test that helps in testing the impact protection of a protective textile is _____.

State whether the following statements are True/False:

16. To avoid problems when typing, you should keep your wrists positioned high above your fingers. True/False
17. Carpal Tunnel Syndrome can be caused by swollen tendons or synovial sheaths placing pressure on the median nerve. True/False
18. Lighting is of no concern if you have a good setup in your workstation already. True/False
19. Leg room is an important consideration when setting up a workstation or improving an older setup. True/False
20. Only people who work with computers have to worry about Ergonomics. True/False

**PROGRAMME EVALUATION SCHEDULE
OF THE 21 DAYS TRAINING
“ADVANCES IN ERGONOMICS RESEARCH AND PRODUCT DESIGN-
APPLICATION OF INTERIOR SPACE AND FUNCTIONAL NEEDS OF
INDIAN POPULATION
FROM 1ST TO 21ST FEBRUARY 2012**

I. GENERAL INFORMATION

1. Name (IN BLOCK LETTERS) : _____
2. Designation : _____
3. Age : _____
4. Sponsoring Institution : _____
5. Field of Specialization : _____
6. Number of years of experience: Teaching _____: Research _____: Extension _____

II. SATISFACTION WITH FACILITIES OFFERED DURING TRAINING

Kindly indicate the extent of your satisfaction with the following

S. No	Item	Totally satisfied	Satisfied	Partially satisfied	Dissatisfied	Totally Dissatisfied
1.	General					
	a.Training arrangement					
	b.Accommodation					
	c.Food					
	d.Transport					
	e.Hospitality					
	f. Visits					
	g.Handouts					
	h.Facilities for practical exposure					
2.	How satisfied are you with the extent of Lecture hall and laboratory facilities?					
3.	How satisfied are you with the behavior and style of your teachers?					
4.	How satisfied are you with					

	details of course contents?					
5.	How satisfied are you with the knowledge received by you on each of the topic?					
6.	How satisfied are you with the methodology adopted for teaching?					
7.	How satisfied are you with your capabilities to train students in this direction?					
8.	How satisfied are you with the training to help you in doing your job?					

III. PERFORMANCE RATING QUESTIONNAIRE

S. No	Resource Person	Topic / Title	Performance Rating			
			Excellent	Very Good	Good	Fair
1	Dr.Debkumar Chakrabarti, Prof & Head, Dept. of Design,IIT- Guwahati	“Ergonomics and Today’s Relevance”				
2	Dr.MahalakshmiV.Reddy, Director-CAFT	Orientation to CAFT in Home Science & 21 Days Training				
3	Dr.Mrunalini, Univ.Head, Dept. of RMCS	Application of Ergonomics in Developing Countries				
4	Dr.DebkumarChakrabarti, Prof. Dept.of Design, IIT- Guwahati	Anthropometry and its Importance in Product Design and Work Space				
5	Dr. Mahalakshmi V.Reddy, Prof,Dept. of RMCS	Ergonomics - A Guide to Measure Health and Safety				
6	Dr.Debkumar Chakrabarti Prof.Dept.of Design,IIT-G	Ergonomics and Product Design Issues				
7	Dr.Debkumar Chakrabarti & Dr. Mahalakshmi V.Reddy	Conceptualizing Product Design and Concept Building - Practical exposure Session				
8	Dr.G.G.Ray, Prof & Head,IDC, IIT-B	Ergonomic Design: An Approach to System Design				
9	Dr.B.R.Chakravarthy, Professor – IDC, IIT- B	Collaborative Innovation Methodology				
10	Dr.G.G.Ray, Dr.B.R.Chakravarthy & Dr.D.RatnaKumari	Workshop on Design : Problem Solving 1 & 2 Presentation & Discussions				
11	Dr.B.R.Chakravarthy Professor , IDC IIT Powai, Bombay	Innovation Case Studies / Innovation by Design				
12	Dr.G.G.Ray	Application of Principle of				

	Professor & Head Dir. IDC, IIT Bombay	Biomechanics in Design				
13	Dr.G.G.Ray, Dr.B.R.Chakravarthy &Dr.D.Ratna Kumari,	Workshop on Design : Problem Solving 3 Presentation & Discussions				
14	Dr.D.Anitha, Head, Dept of APTX	Clothing of Physically Challenged				
15	Dr.Majumdar, Assoc. Director,DRDO,New Delhi	Human Factors in the Design of Functional Clothing				
16	Dr.A.Sharada, Dean, Faculty of Home Science, ANGRAU	Design and Development of Functional Clothing				
17	Dr.Majumdar, Assoc. Director,DRDO,New Delhi	Environmental Ergonomics				
18	Dr.J.Hayavadana,Prof, Dept.ofTextile Tech,OU	Product Design – A Strategy to be in the Changing Market				
19	Dr.Majumdar, Assoc. Director, DRDO	Safety Concern in Design of Products & Personal Protection				
20	Dr.Majumdar, Assoc. Director, DRDO, & Dr.A.Mrunalini	Practical Exposure to Ergonomic Assessment Tools and Techniques for Assessment of Human Safety and Endurance				
21	Dr.D. Anitha , Head, Dept. of APTX	Functional Clothing for People with Special Needs - Skill Training - Practical Session				
22	Dr.A.Mrunalini, Technical Co-ord, AICRP- FRM	Qualitative and Quantitative Techniques for Ergonomic Assessment in Agriculture and Allied Occupations				
23	Dr.T.Neeraja, Prof , Dept. of RMCS	Musculoskeletal Disorders in Different Occupations and Risk Factors				
24	Dr.P. Radha Rani, Assoc. Prof.Dept. of RMCS	Visit to Boys Town, Industrial Training Center				
25	Mr. Ajeesh P S (MPT – Orthopedics),	Ergonomic Methods to Assess Levels of Musculoskeletal Discomfort Among Workers: NIOSH Discomfort Surveys, University of Michigan Upper Extremity Questionnaire, Cornell Musculoskeletal Discomfort Survey, Nordic Musculoskeletal Questionnaire				
26	Ms Jeena Jose (MPT – Musculoskeletal Disorders and Sports),	Psychosocial Questionnaire: Work Style Questionnaire, NIOSH Generic Job Stress Questionnaire				
27	Mr. Ajeesh P S,	Postural Evaluation Tools:				

	Ms Jeena Jose & Dr.T. Neeraja, Prof. Dept. of RMCS	Quick Exposure Checklist (QEC), Ovako Working Posture Analyzing System (OWAS), Concise Back Screening Instrument (CBSI)				
28	Mr. Ajeesh P S, Ms Jeena Jose & Dr.T.Neeraja, Prof. Dept. of RMCS	Postural Evaluation Tools: Rapid Upper Limb Assessment (RULA)				
29	Mr. Ajeesh P S	Measurement of Work Effort and Fatigue: Borg Ratings of Perceived Exertion Scale, Hand Activity Level (HAL) Rapid Entire Body Assessment (REBA)				
30	Ms Jeena Jose	The Strain Index				
31	Ms Jeena Jose	Snook Tables for Maximum Weight				
32	Mr. Ajeesh P S, Ms Jeena Jose & Dr.T.Neeraja, Dept. of RMCS	Methods for Assessing Back Injury Risks: Revised NIOSH Lifting Equation				
33	Dr.P.Radha Rani , Assoc. Prof. Dept. of RMCS	Visit to Central Institute of Tool Design, Balanagar, Hyderabad - Guest Lectures, Tour CITD & Demonstration of Product Design Soft ware				
34	Dr.L.Uma Devi, Assoc. Prof, Dept. of HDFS	Ergonomics and Safety Issues in Indoor and Outdoor Playground Equipment for Children				
35	Dr.Mahalakshmi V.Reddy, Prof&Head, Dept of RMCS	Ergonomics in the Design of Pre-School Environment				
36	Dr.L.Uma Devi, Assoc. Prof, Dept. of HDFS	Visit to Princess Esin Pre-School Environment				
37	Dr.D.Ratna Kumari, Assoc.Prof.Dept.of RMCS	Senior Citizens - Product Design and Safety				
38	Dr. S. Ratna Kumari Assoc.Prof,Dept.of HDFS	Senior Citizens - Living Environment and Safety Issues				
39	Dr.S.Ratna kumari Assoc.Prof,Dept.of HDFS	Visit to Senior Citizen Home				
40	Ar. Sudhakar, Prof & Head, SPA, JNTU	Ergonomics and Safety Issues in Barrier-Free Environment				
41	Mrs. T.Neeraja, Prof. Dept. of RMCS	Visual Ergonomics and Safety Issues				
42	Ar. Aditya, Asst. Prof. SPA, JNTU	Ergonomics and Safety Issues in Residential Buildings and Multi-Storied Apartments				

V. PRACTICAL EXPOSURE/ EXPERIENCE /SKILL TRAINING – 2 hour’s session

Given below are some of the important practicals /Visits that you had an exposure during winter school. Please indicate against each the extent of new learning that you had by ticking in appropriate column:

S.No	PRACTICALS/VISITS	Learned new skill	Sharpened existing skill	No new learning
1	Conceptualizing product design and concept building-Hands on practical assignment session			
2	Practical exposure to ergonomic assessment tools and techniques for assessment of human safety and endurance			
3	Functional clothing for people with special needs-skill training			
4	Visit to Boys Town, Industrial Training Centre			
5	Practical exposure to different ergonomic tools and utility of tools for different evaluation			
6	Visit to Central Institute of Tool Design			
7	Visit to Princess Esin Pre-school Environment			
8	Visit to Senior citizens Home			
9	Development of Ergonomic check points for different public building space			
10	Demonstration on women friendly farm tools and implements			
11	Group discussion on Human safety issues in different occupations			
12	Development of ergonomic check points for functional spaces			
13	Group Project on User – friendly Product design and presentation of design concept and design ideation process			
14	Group Project on design of work environment with ergonomic check points for assessment			
15	Presentation of Group Projects and sharing knowledge and exposure to variation in design details of different work environment.			

VI. OVERALL IMPRESSION ON THE TRAINING

1. Could you satisfy yourself with the amount of participation in most of the discussions towards the end of lectures?

- a. Yes always b. Yes, but only sometime c. No. If no reasons –
i. Lack of time
ii. Nothing important to discuss
iii. Any other

2. Were you satisfied with the duration of Training? Yes / No

3. Do you think that ICAR should organize courses for short duration?

Yes / No, If Yes, that for what duration, which month and on what topic?

4. How was the daily programme? Tick the appropriate one:

Very tight (b) Tight (c) Comfortable (d) Light (e) very light

5. If you think that some more topics and/or techniques should have covered in this training, then please list the topics and techniques that could be added.

(i)

(ii)

(iii)

6. What is your overall opinion about the Training?

Objective 1 : B. ALLOCATION OF SEATS UNDER PG PROGRAMME

Admission: UG & PG programme in Academic year 2011 – 2012 has full strength

Under-Graduates Students Intake: 78 (As on role till date)

In view of the good number of students at UG level and also there is also demand for PG studies.

Post-Graduate –

M.Sc (H.Sc) 20 + 4 (ICAR nominees)

M.Sc (FST) 6 +2 (ICAR nominees)

Ph.D intake - PhD (H.Sc) 3+ 1 (Faculty on Deputation- CAU, Meghalaya)

Objective 1: C. RESEARCH

Research Projects taken up by faculty during 2011-2012

DEPARTMENT OF FOODS & NUTRITION

Sl. No.	Project title	Investigators	Funding agency	Period / duration	Budget Rs. in lakhs
1.	Creation of demand for millet foods through PCS value chain	Co-PI: Dr. T.V.Hymavathi, Associate Professor	NAIP project, ICAR	December 2007 to June 2012	59
2.	Effect of ionizing radiation on morphological, physiological, molecular aspects in food crops	PI- Dr.Anurag Chaturvedi Co-PI: Dr. M.R.Sreedhar	BARC, Mumbai	Sept 2008 to Sept 2011	27
3	Health status studies around the proposed uranium mining area at Lambapur, Nalgonda district, A.P.	PI: Dr. K. Uma Maheswari Co-PI: Dr. K. Uma Devi	Board of Research in Nuclear Sciences DAE, Mumbai	April 2010 to March 2012	25.3
4.	Health status	PI: Dr. K. Uma Devi	Board of	April	38.0

	studies around the proposed uranium processing plant at Sherpalli, Devarkonda, Nalgonda district, A.P.	Co-PI: Dr. K. Uma Maheswari	Research in Nuclear Sciences DAE, Mumbai	2010 to March 2012	
5.	A collaborative study on the effect of feeding millet food to Anganwadi children (3-5 years) in Medak District, A.P	PI: Dr. V. Vijayalakshmi Co-PI: Dr. S.Shobha	Deccan development society	15 th October 2010 to 15 th October 2011.	3.19
6.	Development of a rapid multiplex PCR assay for the detection of mycotoxin production in foods and grains And Determination of PCR-RFLP profiles of Indian Fish Species using Agilent DNA Fish ID kit and Agilent 2100 Bioanalyzer	1.PI: Dr. Anurag Chaturvedi, Assoc Dean, College of Home Science, ANGRAU, Hyd 2.PI: Dr. Krishna Bhagavatula, Senior Scientist – Molecular Biology (PI) Agilent Technologies India (P) Ltd, Hyd 3.Co-PI: Dr. K. Manorama, Professor and Head, PGRC, ANGRAU, Hyd 4.Co-PI: Dr. M.R.Sreedhar, Sr. Scientist, Q C Lab, ANGRAU, Hyd	Agilent Technologies India (P) Ltd, USA	October 2010 to October 2012	110
7.	Consumer evaluation and commercialization of value added products with underutilized fruits and vegetables	PI: Dr. K. Uma Maheswari	State Plan project, ANGRAU	April 2011 to March 2012	0.85
8.	Development of medicinal plants incorporates functional noodles	PI: Dr. T. V. Hymavathi	State Plan project, ANGRAU	April 2011 to March 2012	1.17
9.	Correlation between glycemic index of foods , carbohydrate content and in-vitro digestibility	Dr. Shobha , PI Dr. V.Vijaya Lakshmi, Ms. T.Supraja	State Plan project, ANGRAU	April 2011 to March 2012	1.17
10.	Impact studies under A.P.Foods model and local	Dr. K. Umamaheswari, PI and Dr. K. Manorama, Co-PI	A.P.Foods , Hyderabad	November 2011 to April	11.9

	food model		d	2012	
11.	“Value addition and scaling up of value added products through development of enterprises and establishing market linkages”	Dr. T. V. Hymavathi, PI, and Faculty , Department of Foods and Nutrition	RKVY project, Govt. of A.P.	November 2011 to March 2013	272

DEPARTMENT OF RESOURCE MANAGEMENT AND CONSUMER STUDIES

Sl. No.	Project title	Investigators	Funding agency	Period duration /	Budget Rs. in lakhs
12.	Assessing the feasibility of preservation of flowers and foliage in freeze-drying process and market potential	Dr.Mahalakshmi V. Reddy, Professor and Head and Dr. D.Ratna Kumari, Associate professor	ANGRAU	2011 - 2012	1.4
13.	Testing the feasibility of preparation of Barbecue briquettes with various carbonized biomass material	Dr.T.Neeraja, Professor and Dr.Y.Vijaya Lakshmi, Associate professor	ANGRAU	2011 - 2012	0.88
14.	Techniques, value addition and production of dried materials for Income generation	Dr.P.Radha Rani, Associate Professor	ANGRAU	2011 - 2012	1.7
15.	Designing Indigenous technology for cleaning root vegetables and evaluating its effectiveness on drudgery	Dr.A. Mrunalini, Professor and University	ANGRAU	2011 - 2012	0.88

DEPARTMENT OF APPAREL AND TEXTILES

Sl. No.	Project title	Investigators	Funding agency	Period duration /	Budget Rs. in lakhs
16.	Natural Dyes	Dr.A. Sarada Devi Dean, Faculty of Home science	ICAR- NAIP	20-08-08 To 30.06.12	343.9

17.	Performance of Natural Gums in Direct Silk Printing with Natural Dyes	Dr.A. Sarada Devi Dean, Faculty of Home science Dr. D. Anitha Assoc. Professor and Head	State Research Project	2011-12	3.5

DEPARTMENT OF HUMAN DEVELOPMENT AND FAMILY STUDIES

Sl. No.	Project title	Investigators	Funding agency	Period duration /	Budget Rs. in lakhs
18.	“e- Home Science Courseware” Consortium Project	Dr. K. Mayuri	World Bank Sponsored NAIP project ICAR New Delhi	3 years, 7 months	335
19.	Early Developmental Assessment Software Application (ECDASA) – field testing –	Principal Investigator – Dr. K. Mayuri	State Plan	6 months	0.80
20.	Developmental Intervention for hospitalized children	Principal Investigator – Dr. S. Ratna Kumari	State Plan	6 months	0.80
21.	Language and Social Development intervention to preschoolers in government Children’s Home (Orphanage)	Principal Investigator – Dr. M. Sarada Devi	State Plan	6 months	0.80
22.	Theme – based content development through e-learning for ECE programme	Principal Investigator- Dr. L. Uma Devi	State Plan	6 months	0.80
23.	Academic performance of children in selected Secondary Schools in Andhra Pradesh	Principal Investigator – Dr. K. Mayuri	Department of School Education, AP.	6 months	3.0
24.	Gender parity index in selected urban and rural secondary schools in Andhra Pradesh	Principal Investigator- Dr. L. Uma Devi	Department of School Education, AP.	6 months	3.0
25.	Situational Analysis of Selected secondary schools in Andhra	Principal Investigator - Dr. M. Sarada Devi	Department of School Education,	6 months	3.0

	Pradesh		AP.		
26.	Impact Evaluation of Mid Day Meal Programme in Andhra Pradesh – Rs. 7,00,000 - Principal Investigator	Principal Investigator - Dr. S. Ratna Kumari	Department of School Education, AP.	6 months	7.0
27.	Empowering Tribal Families for Sustainable Quality Life in Fulfilling psycho-social needs-An integrated developmental initiative	Principal Investigator - Dr.M.Sarada Devi	NABARD Ongoing	January 2012 – December 2013	25.0

OBJECTIVE II

To update the curriculum and courses of Home Science and to strengthen teaching and evaluation at UG and PG level.

UG Programme

As per the ICAR's IVth Dean's Committee recommendations, UG Curriculum was revised and being implemented from the year 2009-2010 and the same is being followed for the current academic year also.

PG Programme

As per the ICAR's IVth Dean's Committee recommendations, PG Curriculum of M.Sc (Nutrition & Dietetics) was revised and implemented from the year 2009-10.

Action Plan: On-going Academic Programmes and Activities

Undergraduate Programme –

1. 4 year degree (2+2)- [B.H.Sc](#) (Hons) with vocational electives
2. 4 year degree – B.Sc Fashion Technology (New programme in 2011-2012)

Postgraduate Programme

M.Sc (H.Sc) & Ph.D (H.Sc) – Foods and Nutrition

M.Sc (H.Sc) & Ph.D (H.Sc) – Family Resource Management

M.Sc (H.Sc) & Ph.D (H.Sc) – Human Development and Family Studies

M.Sc (H.Sc) & Ph.D (H.Sc) – Textiles and Clothing

M.Sc (H.Sc) – Home Science Extension and Communication Management

M.Sc (FST) – Food Science and Technology

Rural Home Science Work Experience Programme (RHWEPE)

The Rural Home Science Work Experience Programme, the unique programme introduced by Acharya N G Ranga Agricultural University. Rural Home Science Work Experience Programme (RHWEPE) 2011-12 was held from 12th Nov 2011 to 5th January 2012 for 55 working days in five adopted villages of KVK, Banagannpalli i.e Appalapuram, Meerapuram, Nandavaram, Tangatoor and Yagantipally. A total of 50 students were placed in interdisciplinary mode in all the five villages. Activities taken up by students from different specialization are:

Department of FDNT

- Monitoring Supplementary nutrition programme in AWC
- Data collection of from 15 families on Nutritional status
- Preparation of AV aids for community nutrition education
- Running of diet counseling centre

Department of HDFS

- Participation in all the activities in Anganwadi centre every day- plan, prepare teaching aids and execution of the programme in all Anganwadi centres
- Preparation of teaching aids following the syllabus and assist the teachers in teaching all subjects.
- Planning and implementation of cognitive games to improve the social and communicative skills of the children.

Department of HECM

- Impact analysis of KVK -Collection of data from 15 families, consolidation of data & report writing and presentation in KVK
- Collection of data from 20 SHG members, item analysis to identify the gap and strengthening
- Success story Photo/ video documentation of three cases/ situations/ individuals- collection of information and documentation with photo/ video.

Department of Apparel & Textiles

- Data collection with regards to Textiles and Clothing activities conducted in the villages, analyzing data and interpretation of results
- Survey on clothing practices and need assessment and enrichment / embellishment / garment designing as per the need
- Demonstrated the care of clothing and stain removal.

Department of RMCS

- Impact analysis of KVK on resource management activities
- Assessment of financial resource management in SHGs
- Consumer Education and documentation of success stories.

Group activities in each village

- Extensive nutrition garden
- Empowerment of adolescent girls through method demonstration and vocational trainings
- Interaction with village leaders, youth and grass root level workers.
- Parent education
- Play activities for school children
- Conducting of events like Worlds aids day, women in agriculture day etc.
- Education oriented cultural programmes

NSS SPECIAL CAMP AT BANAGANPALLI VILLAGE, KURNOOL DISTRICT:

NSS Special camp was conducted from 28.12.2011 to 3.01.2012 at Banaganpalli Village, Kurnool District. The objective of the camp was to inculcate the service motive in students. The main activities undertaken were Nutrition Education, Consumer Education, Health camps, Education against social evils, Girl child Education, Environmental sanitation, Environmental pollution, Skill trainings and so on. The messages were spread through Rallies, public meetings, and door to door campaigns.

Skill trainings in income generation activities like candle making, glass painting, and were conducted. The parents of infants were taught about infant stimulation activities. Anganwadi teachers given on hand experience in preparation and use of play material with local resources



DIET COUNSELLING CENTRE



**MONITORING NUTRITION PROGRAMME
IN AWC(Anganwadi Centre)**



**PARTICIPATION OF CHILDREN
AT SCHOOL**



**TEACHING WITH THE
AUDIO VISUAL AIDS**



SKILL TRAINING ON TAILORING AND GLASS PAINTING



NSS SPECIAL CAMP AT BANAGANPALLI VILLAGE, KURNOOL DISTRICT EXPERIENTIAL LEARNING: (On-going programme)

The facilities are being set up for Hands on training in the Departments of Foods and Nutrition, Apparel and Textiles and Resource Management and Consumer Sciences.

Department of Foods and Nutrition

An exclusive laboratory with Extrusion unit with its accessories was established with financial sources of various research schemes to provide hands on training in Extrusion cookery and preparation of various nutritious snack items suitable for various age groups. Extrusion lab is being utilized for student's research work as well as experiential learning.

Department of Resource Management and Consumer Sciences & Apparel and Textiles

Facilities required for running the training programme was established in these departments and these are being effectively put to use in the on-going semester for generation of income and improvement entrepreneurial skill.

Village adoption

Village adoption is one of the activities mandatory of ANGRAU. For every three years, a new village will be selected. So far five villages were covered under this program. The department coordinates within the faculty, on the activities to be conducted in the villages adopted. The clientele includes children of all age groups (infants, preschool, school going), adolescent girls, pregnant and lactating mothers, SHGs and women entrepreneurs. Diabetics, children with learning disabilities, malnourished children, adolescent girls and mothers are groups of special attention. Vocational trainings for income generation in fashion technology, flower bouquet making and food processing

etc. are being organized. Drudgery reduction in farm and home practices and skill up gradation are also emphasized.

OBJECTIVE III

To support the Government in training the personnel by disseminating Home Science information to personnel of different sectors.

To encourage self employment and income generating activities among grass root level workers, farm women and house wives, training programmes on Home Science and skill oriented certificate courses were organized by Centre of Advanced Faculty Training Centre.

1. Training Programmes and Certificate courses organized:

Sl. No	Coordinators	Name of the programme	Duration		No. of participants
			FROM	TO	
1.	Dr.M.Sarada Devi	Preprimary Teacher Training – Certificate courses	15.3.2011	25.04.2011	130
2.	Dr. D. Anitha	Trainings were conducted in RHWEP villages on ‘Antimicrobial treatment to cottons using plant sources’ at both Kotwalguda and Airport colony. Locally available plant sources like guava and Asoka leaves were used in the demonstration.	18.04.2011	18.04.2011	50
3.	Dr T Sarah Kamala, & Department	“Video Recording and Editing”	09.05.2011	25.06.2011	25
4.	Dr T Neeraja, Professor and Mrs Usha Bhagya	A one day demonstration cum training programme on “Ikebana” for Home makers	19.09.2011		15
5.	Dr T Neeraja, Professor and Mrs SuchitaReddy	“Techniques of Bonsai” for Home makers	21.09.2011		15
6.	AICRP Dr. Padma	Training programme on Tie and Dye and Batik was given to school teachers of Deaf and Dumb school from Madanapalli	21.09.11	28.09.2011	20

7.	Dr. L. Uma Devi	Preprimary Teacher Training – Certificate courses	05.10.2011	19.11.2011	45
8.	Dr. D. Anitha	A demonstration on block printing was carried out in the department during the training programme for Research Associates from KVKs of different districts of A.P. Details on preparation of printing paste, procedure of printing and few techniques were demonstrated. Trainees were informed about the availability of raw material, the cost and available locations with contact addresses.	19.01.2012	19.01.2012	20
9.	Dr Mahalakshmi V Reddy	“Advances In Ergonomics Research And Product Design – Application To Interior Space And Functional Needs Of Indian Population” for the Faculty in State Agricultural Universities under CAFT	01.02.2012	21.02.2012	14
10.	Dr. S. Ratna Kumari	Preprimary Teacher Training – Certificate courses	14.03.2012	25-4-2012	80
11.	Dr Mahalakshmi V Reddy	One Day Seminar on Children as Consumers – Insights and Implications For parents, teachers and Consumer Club members	15.03.2012		100
12.	Dr. V.Vijaya Lakshmi Dr. S.Suchiritha Devi Ms. T.Supraja Ms.V. Sujatha	Participatory Rural Development Initiatives	28.3.2012	30.3.2012	20

2. Staff as Resource persons: (outside organization):

Sl. No	Name	Title of the programme	Topic	Date	Organization / venue
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1.	Dr. T.V. Hymavathi, Assoc Professor	Participants of “Global Symposium on Ready to Eat Foods : Opportunities for R&D, Entrepreneurship and Markets”	“Sorghum based RTE Health Foods – A New opportunity for Food Industry”	25.04.2011.	ICRISAT, Hyderabad along with Assocom India.
2.	Dr. K. Aparna, Assistant Professor	“Global Symposium on Ready to Eat Foods: Opportunities for R&D, Entrepreneurship and Markets”	“Phytosterol fortification – An emerging emergency for Indian food processing industry”	25.04.2011.	ICRISAT, Hyderabad along with Assocom India.
3.	Dr.K.Uma Maheswari, Professor	Training programme of Self Help Groups of urban Indira Kranthi Patham	“Nutritional deficiencies - Balanced diet and it’s importance”	May 2011	Farmers hostel, ANGRAU, Hyderabad
4.	Dr.N.Lakshmi Devi, Professor	Training programme of Self Help Groups of urban Indira Kranthi Patham	“Food fads and fallacies”	May 2011	Farmers hostel, ANGRAU, Hyderabad
5.	Dr. T. V. Hymavathi, Assoc Professor	National Workshop on “Value chain experiences on Agricultural commodities - Millets and Maize”	“Challenges in millet processing”	30.05.2011	Surana Udyog Auditorium, federation house, jointly organized by FAPCCI and Directorate of Sorghum Research, Hyderabad
6.	Dr. T. V. Hymavathi, Associate Professor	5 th CAC meeting	Technical progress of the NAIP millet value chain	31.05.2011	Directorate of Sorghum Research, Hyd
7.	Dr. K. Uma Maheswari,	Training programme for	“Food & Nutrition	16.06.2011	MANAGE, Rajendranagar

	Professor	Agriculture Officers, field functionaries, Veterinary officers and in KVK and NGO's of India	consensus for farm men & women”		
8.	Dr. K. Uma Maheswari, Professor	Training programme for Agriculture Officers, field functionaries, Veterinary officers and in KVK and NGO's of India	“Food & Nutrition consensus for farm men & women”	6.07.2011	MANAGE, Rajendranagar
9.	Dr. K. Uma Maheswari, Professor	Training programme for Food Corporation of India (FCI) employees who are working as Agriculture Officers in various locations of India	“Pulses – Varieties, composition and processing”	13.07.2011	Indian Grain Storage Institute, Rajendranagar.
10.	K.Aparna, Assistant Professor	NAIP sponsored training programme on “Basic and applied approaches in designing of dairy based nutraceuticals and functional foods” for the trainees from ICAR institutes all over India	To conduct theory and hands-on practical classes on “Phytosterol based functional foods”	25 th to 27 th July 2011	Division of Dairy Technology, National Dairy Research Institute, Karnal, Haryana.
11.	K. Uma Devi, Professor	Inauguration ceremony of the 25 th Egg	Delivered an inaugural lecture	30.07.2011	NTR Memorial trust Bhavan, Hyd

		Arogya Bhandar			
12.	Dr.K.Uma Devi, Professor	One day symposium “In the hands of nutrition lies emancipation of next generation – This is our vision and conviction” jointly organized by National Institute of Nutrition and Women Welfare and Child Development Department.	Adolescent nutrition – What next?”	02.09. 2011	National Institute of Nutrition, Hyd
13.	Dr..T.V.Hymavathi, Associate Professor	International Conference on Scope of International Co- operation in dairy, Agri & Food Industry from 9-11, September, 2011	“Sorghum based health foods – An emerging opportunity for food industry”	11.09.2011	FOODEX, Bangalore
14.	Dr.K.Uma Maheswari, Professor	Samethi, Govt of Andhra Pradesh – Agriculture Department at the training programme “Post harvest management of agriculture and allied products”.	“Post harvest management of food grains”	14.09.2011	Hyderabad
15.	Dr.K. Aparna, Assistant Professor	On occasion of world food day celebrations	“Phytosterols – A cost effective solution for CVD risk reduction”	18.10.2011.	Directorate of Rice Research, Rajendranagar

16.	Dr T Sarah Kamala, Associate Professor	Subject Matter expert	Development of TOT – manual on Promoting Womens Political Leadership and Governance	31.10.2011 to 01.11.2011	UN Women & NIRD
17.	Dr. S. Ratna Kumari	KEK LTD	Pilot project on English vocabulary for pre school level	26.11.2011	Lotus National schools Nagaram, Hyderabad
18.	Dr.K.Uma Maheswari, Professor	Agricultural women and scientists on occasion of women in Agriculture day celebrations.	“Nutritional considerations for women in Agriculture”	5.12.2011	Directorate of Rice Research, Hyderabad
19.	Dr T Sarah Kamala, Associate Professor	Subject Matter expert	“Biological Disaster Management: A step towards Building Natural CBRN Capacity & Vigilance – Role of Industry under ppp”	12.12.2011 to 13.12.2011	UN Women & NIRD
20.	Dr T Sarah Kamala, Associate Professor	Subject Matter expert	Finalisation of TOT – training mode for Promoting Womens Political Leadership and Governance	14.12.2011	UN Women & NIRD
21.	Dr.T.V. Hymavathi, Associate Professor	Seminar on Food Processing Industry – Opportunities & Challenges	Value addition to fruits and vegetables for health and wellness.	16.12.2011	FAPCCI,Hyderabad
22.	Dr. T. V. Hymavathi, Associate Professor	State level seminar on “Food processing industry – Opportunities and	Value addition to fruits & vegetables for health and wellness”	16.12.2011	FAPCCI, Hyderabad

		challenges”			
23.	Dr. Sucharitha Devi, Assistant Professor	Training programme of Self Help Groups of urban Indira Kranthi Patham	“Nutritional deficiencies - Balanced diet and it’s importance”	17.12.2011	Farmers hostel, ANGRAU Hyderabad
24.	Dr.K.Uma Maheswari, Professor	conference on “Sustainable food security and safety”	“Utilization of microencapsulated fruit and vegetable powders as colourants in value added products”	20.12. 2011	Geetham Institute of Science, Visakapatnam
25.	Dr D Ratna Kumari	Examiner for undergraduate students	Under-graduate course evaluation	20.12.2011 to 21.12.2011	College of Home Science Central Agri. University, Tura, Meghalaya
26.	Dr. S. Ratna Kumari	State meeting at Rajiv Vidya Mission, A.P. Hyderabad	Proposal to start Kinder-garten sections in Govt Primary schools	21.12.2011	RVM (SSA) SCERT campus, Hyderabad
27.	Dr T Neeraja, Professor	Pilot project on ‘Street Food Vending and compilation of the manual for Street Food Safety,	Literature Development		Department of Geography, University of Goettingen – Sustainable Hyderabad Project, Germany and ANGRAU
28.	Dr. D. Anitha Assoc. Professor & Head	A workshop on “Reframing of syllabus for intermediate courses”.	The syllabus of two courses was reframed for implementation from this academic year onwards.	26.12.2011 to 30.12.2011	Intermediate board, Nampally
29.	Dr.T.V. Hymavathi, Associate Professor	To the extension workers of Govt. organisations	“Post harvest management & value addition to food crops and grains”	9.01.2012	EEl, Rajendranagar
30.	Dr.T.V. Hymavathi, Associate Professor	KVK Home Scientists of Maharastra in a training programme on	“Product development and shelf life aspects of millet products”	11.01.2012	

		enterprise development under INSIMP			
31.	Dr P Radha Rani	“Training on Viable Technologies for Enterprise promotion”	“Value Addition to Flowers”	19.01.2012	
32.	Dr. D. Anitha Assoc. Professor and Head	Workshop on “Textbook writing” for first year courses.	Text book on “Fashion garment designing” for State Institute of Vocational Education, BIE, Hyderabad	09.02.2012	State Institute of Vocational Education, BIE, Hyderabad.
33.	Dr. S. Ratna Kumari	Directorate of School Education	Steering Committee meeting on Evaluation of Mid Day Meal Programme	17.02.2012	DSE, Govt. of AP, Hyderabad
34.	Dr.K.Uma Devi, Professor	International Women’s Day celebrations	“Health and Nutrition across life stages”	12.03. 2012	Defense Meteorological Research Laboratories, Hyderabad
35.	Dr.T.V. Hymavathi, Associate Professor	Training programme on enterprise development under INSIMP	“Millet Products - Preparation and shelf life”	21 st March 2012	DSR, Rajendranagar, Hyd

3. Scientific articles published:

S.No.	Name	Title	Journal Name	Volume No.	Year
1.	Nagalakshmi.M, Vijayalakshmi.V and Gulla.S	“Effect of iron supplementation in adolescents on energy costs of young athletes”	Indian Journal of Maternal and child health	Vol.13	2011
2.	Nagalakshmi.M, Vijaya Lakshmi.V and Gulla.S	”Dietary assessment, anthropometric measurements and nutritional status of young professional	Indian Journal of Maternal and child health	Vol.13 (2)	2011

		athletes”			
3.	Ranjita P, V.Vijaya Lakshmi and S. Gulla	Quality and shelf life of soy paneer and its fortified products	Beverage and Food World	Vol 38, (11)	2011
4.	Sneha Sanlka, Anurag Chaturvedi and Aparna Kuna	Studies on the effect of packaging material and irradiation on storage stability of jaggery	International Journal of Sugar crops and related industries	Vol.10	2011
5.	P.Megala and T.V. Hymavathi	Inulin and Fructooligosaccharides Incorporated Functional Fruit Bars	World Academy of Science, Engineering and Technology	Vol 59 pp 600-605	2011
6.	D.Soumya, K.B.Sunitha Devi, Y.Shiva Lakshmi and Dr.K.Uma Maheswari	“Studies on seed rate for promising ground nut varieties under rain fed conditions of Southern Telengana Zone of Andhra Pradesh”	Journal of Research, ANGRAU	Vol.3 (4) p.76	2011
7.	T V Hymavathi, Bala Tripurasundari, B Dayakar Rao and S Spandana	Production of gluten-free products from underutilized millets	J Food Process Technol	S1: 2157-7110-10000S1-4/Special Issue 2011	2011
8.	T V Hymavathi and P Megala	Functional benefits of Inulin (In) and Fructooligosaccharides (FOS) in food processing and value addition	J Food Process Technol	S1: 2157-7110-10000S1-5/Special Issue 2011	2011
9.	Dr.K.Uma Maheswari, Chitra Purohit and N.Sandhya	“Designer foods with natural colours from underutilized fruits and vegetables – An emerging opportunity for food industries and entrepreneurs”	National Conference on “Appropriate Technologies for Indian Food Processing Industries”	5 – 6 March 2012 University of Agricultural Sciences, Bangalore.	
10.	Kavitha.C, Pushpa Dhami, Salma Sultana and Dr.K.Aparna	“Development and evaluation of dehydrated drumstick leaves incorporated multigrain	National Conference on “Appropriate Technologies for Indian	5 – 6 March 2012 University of Agricultural Sciences, Bangalore	

			Food Processing Industries”		
11.	Dr. K.Mayuri & G. Swaroopa Rani	Caregiver – infant interaction: behaviour analysis of general setting through Observer Behaviour Software	Behavioural Scientist	Vol 12 (1) PP 63-67	2011
12.	Dr. K.Mayuri & Alka Pandey	Aggressive Behaviour in Early Childhood: Guidelines for intervention by imparting good moral values	Navtika – Journal of Early Childhood Care and Education	Vol II (4) PP 71-80	2011
13.	S. Ratna Kumari, M. Sarada Devi & S.A. Sailaja	Developmental Stimulation for rural infants – initiative for community child development worker	Asian Journal of psychology and education	Vol 44 3-4,	2011
14.	S. Ratna Kumari, M. Sarada Devi & S.A. Sailaja	Impact of developmental stimulation of motor development on rural infants	Journal of Community Guidance and Research	Vol 28 , 2,	2011
15.	M. Sarada Devi, S. Ratna Kumari, S. Prashanti	Knowledge levels of care takers of Sishu vihar	Betterment of Education P. Dixit, M. Bhargava (EDs)	69-78	2011
16.	S. Ratna Kumari & Nasreen Banu	Assessment of Early Childhood education centers	Betterment of Education P. Dixit, M. Bhargava (EDs)	79-89	2011
17.	M.Sarada Devi S.Ratna Kumari &I.Mohanty	Impact of developmental intervention on the motor and mental development of orphan children	The Asian Journal of psychology & Education	Vol.44 No.1-2 pp.38-44	September 2011
18.	M.Sarada devi L.Uma Devi	Impact of school readiness programme- pratyusha on first standard tribal children	Indian psychological review	Vol.44 No.5-6 pp.2-7	September 2011
19.	Neeraja. Telaprolu	Ergonomic Exposures	International	Proceedings of	December,

		and Outcome Musculoskeletal Disorders among Construction Workers,	Conference on Ergonomics and Human Factors (HWWE 2011)	HWWE 2011.	2011
20.	D Ratna Kumari	Design Guidelines for A Kitchen for the Visually Challenged	International Conference on Ergonomics and Human Factors (HWWE 2011)	Proceedings of HWWE 2011.	December, 2011
21.	Mahalakshmi V. Reddy	Physical Barriers in the Homes of the Wheelchair Dependents,	International Conference on Ergonomics and Human Factors (HWWE 2011)	Proceedings of HWWE 2011.	December, 2011
22.	Rajeshwari.K, Vijaya Lakshmi.V and S Gulla	Age and Gender related changes in Body Composition in Pre-adolescents	Indian Journal of Public Health Research & Development	January - March, Vol. 3, No.1	2012
23.	Noorunnisa Fazal, V.Vijaya Lakshmi and K.Sreedevi	“Preparation and utilization of date paste for value added products”	Beverage and Food World	Vol.39. No.1,	February 2012.

OBJECTIVE IV:

To disseminate the Home science information to personnel of line departments, research institutes, State Agricultural Universities etc.

1. CAFT – H.Sc New Letter

To disseminate research highlights of various aspects of Home Science to different sectors and its personnel a CAFT News letters are is brought out by Centre of Advanced Studies. During the report period, two issues of News Letters were brought out for circulation among the line departments and the organizations

involved in Home Science subject's related programmes and to disseminate Home Science information to personnel of different sectors.

1st Issue December 2011 – CAFT - H.Sc News Letter

- Focus of the issue was on Home Science Research & Extension

2nd Issue March 2012 (Not yet released) – CAFT - H.Sc News –

- Focus on Frontier Area of Research – Ergonomics & Product Design

2. CAFT – H.Sc – Web Portal

CAS and CAFT - H.Sc Data from inception to till date is generated in soft copy for building the portal. A format of portal is ready but needs refinement and update. This will be linked to ANGRAU portal for public access by June 2012.

Draft Web Page Design



Home

- CAFT vision
- Faculty of Home Science
- Department
- Universities Under ICAR
- Training Programmes
- Ongoing events
- Extension
- Publications
- Photo Gallery
- Contact Us
- Visiting Numbers

ABOUT CAFT

Home science education encompasses life education. The CAFT–Home Science in ANGRAU, Hyderabad, is the only centre of its kind in India to disseminate 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.

1.Establishment 1996
 Year : Proc. No. 37735 / H.Sc/A1/94;
 dt. 22-9-1996 of APAU

2.Area / Discipline : Foods & Nutrition/ Home Science

3.Location: PG & Research Centre
 Dept. of Foods & Nutrition
 College of Home Science
 Rajendranagar, Hyderabad-30.

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3. Guest lectures to P.G. students & staff:

Sl. No.	Resource person	Topic	Date
1	Dr. N. Lakshmi Devi, Professor	“Overview of studies done on extrusion technology in department of Foods & Nutrition”	5 th April 2011
2.	Debkumar Chakrabarti, Professor & Head, Department of Design, IIT, Guwahati, Assam	<ul style="list-style-type: none"> • Relevance of Ergonomics in Product Design in today’s context • Design Anthropometry and its Importance in Product Design and Work Space • Ergonomics and Product Design Issues • Conceptualizing Product Design and Concept Building 	1-2-2012 & 2.2.2012,
3.	Dr.G.G.Ray, Professor & Head, Dir. Industrial Design	<ul style="list-style-type: none"> • Systems Approach to Product design Application of Principle of Biomechanics in Design • Ergonomic Design: An Approach to 	3.2.2012 &

	Center IIT Powai, Bombay,	System Design	4.2.2012
4.	Dr.B.R.Chakravarthy, Professor , Dept. of Industrial Design, IIT Powai, Bombay	<ul style="list-style-type: none"> • Innovation by Design' • Innovation by Design - Collaborative Innovation Methodology 	3.2.2012 & 4.2.2012
5.	Dr.D Majumdar, Assoc. Director, DRDO, New Delhi	<ul style="list-style-type: none"> • "Human Factors in the Design of Functional Clothing" • Environmental Ergonomics • Safety Concern in Design of Products for Personal Protection • Practical Exposure to Ergonomic Assessment Tools and Techniques for Assessment of Human Safety and Endurance 	6.2.2012 & 7.2.2012
6.	Dr.J.Hayavadana, Prof, Dept.of Textile Technology, OU	Product Design – A Strategy to be in the Changing Market	7.2.2012
7.	Mr. Ajeesh P S (MPT – Orthopedics) RECOUP, Bangalore	Ergonomic Methods to Assess Levels of Musculoskeletal Discomfort among Workers: NIOSH Discomfort Surveys, University of Michigan Upper Extremity Questionnaire (UMUEQ), Cornell Musculoskeletal Discomfort Survey, Nordic Musculoskeletal Questionnaire (NMQ) Postural Evaluation Tools: Quick Exposure Checklist (QEC), Ovako Working Posture Analyzing System (OWAS), Concise Back Screening Instrument (CBSI) Measurement of Work Effort and Fatigue: Borg Ratings of Perceived Exertion Scale, Hand Activity Level (HAL)	9 th & 10 th Feb, 2012
8.	Ms Jeena Jose (MPT – Musculoskeletal Disorders and Sports) RECOUP, Bangalore	Psychosocial Questionnaire: Work Style Questionnaire, Niosh Generic Job Stress Questionnaire, Postural Evaluation Tools: Rapid Upper Limb Assessment (RULA) Rapid Entire Body Assessment (REBA),The Strain Index, Snook Tables for Maximum Weight, Methods for Assessing Back Injury Risks: Revised NIOSH Lifting Equation	9 th & 10 th Feb, 2012
9.	Dr. S. Ratna Kumari	Senior citizen's living environments safety issues in ICAR Sponsored 21 day programme under CAFT	14-2-2012
19.	Dr. L. Uma Devi	Environments for Children and safety issues in	14-2-

		ICAR Sponsored 21 day programme under CAFT	2012
11.	Ar. Sudhakar, Prof & Head, SPA, JNTU	Ergonomics and Safety Issues in Barrier-Free Environment ,	15.2.2012
12	Ar. Aditya Singaraju, Asst. Prof. SPA,JNTU	Ergonomics and Safety Issues in Residential Buildings and Multi-Storied Apartments	15.2.2012
13	Mr.N.Ganeshan, Consumer Care Center, Hyderabad	'Children as responsible consumer – Impact of Media and marketing'	15.3.2012
14	Swami Bodhamayanandaji, Ramakrishna Mutt, Hyderabad	'Children as consumers – changing values and resource consumption practices'	15.3.2012
15	Sri.V.Gowri Shankar Rao, Legal Advisor, CAPCO	World Consumer Right's Day – Theme 'our money, our rights'	15.3.2012
16	Sri.V.Madhusudan, OSD, School Education Dept., Govt. of AP	"Right to education Act".	15.3.2012

2. Practical Manuals Developed

Under NAIP Scheme on “e-courseware Development” practical manuals were developed for all the under-graduate courses of Home Science.

Hard copies of Practical Manuals were developed for the following courses

- FRMT 111 - Fundamentals of Art and Design by Dr.Y.Vijayalakshmi
- FRMT 211 - Family Resource Management by Dr.D.Ratna Kumari
- FRMT 121 - Housing and Space Management (Revised)
by Dr.Mahalakshmi V.Reddy
- Bakery & Confectionery - Vol I by Mrs.Kanwaljeet Kaur,
Dr.Kamini Devi, Dr.V.Vijayalakshmi & Mrs.Supraja
- Bakery & Confectionery - Vol II Dr.V.Vijayalakshmi & Mrs.Supraja
- HDFS. 315. Curriculum Development & Effective Teaching
Methods by Dr.S.Ratna Kumari -
- 10 manuals for general interest of family & children by Dr. M. Sarada
Devi.

3. Training programmes/ seminars / workshops attended by staff:

Sl. No	Name / Designation	Programme attended	Organization / venue	Period	Purpose
1.	Dr. K. Mayuri, NAIP - CPI	e- courses Review meeting	NASC , New Delhi	2.05.2011	Present work done report
2.	Dr.D.Anitha, Assoc. Professor and Head	Workshop (meeting CT to staff SAU)	AICRP-CT, university	26.5.2011.	Paper presentation on Agro Textiles” and “Antimicrobial finishes with plant material.
3.	All the staff of College of Home Science	One day workshop on “Assessment, Evaluation & construction of question papers for Home Science education ” An expert from SCERT, Dr. Bramaiah has delivered the contents.	College of Home Science, Saifabad.	14.06.2011	Scheme of Evaluation of Student performance and methodologies for assessment
4.	Dr.K.Manorama, Professor and Dr.S.Sucharitha Devi, Assistant Professor	4 day international seminar on “Food safety and risk analysis”	Tuskgee University, Pratistha Industries, USDA, ANGRAU and UAS, Raichur, at Loyola academy, Alwal and Prathistha Industries, Choutuppal.	6.07.2011 to 9.07.2011	Resource Person for Technical sessions
5.	Dr. S. Ratna Kumari	Conference on Food Safety and Risk Analysis	Sponsored by Tuskagee University, at Layola Academy, Hyderabad	6.07.2011 to 09.07.2011	Participation
6.	Dr.Mahalakshmi V.Reddy Director	CAFT – Interactive Workshop to Directors of	IARI, New Delhi	20 th – 21 st July 2011	Presentation of XI Plan Status Paper

	CAFT - H.Sc Prof & Head Dept.of RMCS	CAFT			
7.	Dr. T. Sarah Kamala and trainees of video Recording & editing	“National Breast Feeding Week Celebrations”	Department of Women Welfare & Child Development, Hyderabad	01.08.2011	Video Shooting exposure
8.	Dr. K. Aparna, Assistant Professor	3 days short term training programme on “Texture profile of processed foods by sensory and instrumental methods”	CFTRI, Mysore	17.08.2011 to 19.08.2011	Participation
9	Dr. T. Sarah Kamala	“Training Modules for Development of Training Module for Promoting Womens Political Leadership and governance”	UN-Women, South Asia and National Institute of Rural Development	17.08.2011 to 19.08.2011	Participation
10	Dr.Sucharitha Devi, Assistant Professor	One day symposium on “A realistic approach to health and weight management”	Asian Institute of Gastro-enterology	3.09.2011	Nutrition week celebrations
11	Dr.Anurag Chaturvedi, Associate Dean and Dr.T.V.Hymavathi, Associate Professor	International exhibition on “Grain Tech India”	Bangalore	10.09.2011 to 11.09.2011	Participation
12	Dr.Sucharitha	Health camp	Guchi Bowli	16.09.2011	Figure

	Devi, Assistant Professor	and diet counseling for the participants of National coaching camp	Stadium		skating/ Bone health promotion for I.D athletes
13	Dr. K. Manorama, Professor and Head	“India Food Seminar”	Agilent Technologies, Bangalore	4.10.2011	Presented two papers on “Mycotoxin detection method” and “RFLP profiling of Indian Fish varieties”
14	All Faculty Members of Dept of RMCS	“Consumer Product Design for Home Utilities”	Central Institute of Tool Design, Balanagar, Hyderabad	12.10.2011 to 15.10.2011	Participation & Hands on training
16	Dr.K.Manorama, Professor	NAIP 21 day training programme on “Non-chemical, Non-thermal processing and membrane technology in food systems”	CIAE, Bhopal	12.11.2011 to 21.11.2011	Participation in 21 days training programme
17	Dr.A. Sarada Devi Dean, Faculty of Home Science Dr.A.Padma, Professor Dr.D.Anitha, Assoc. Professor and Head	A seminar on “Agro Textiles, Geo Textiles, and Medical Textiles & Readymade Garments Manufacturing under Restructured Technology Up gradation Fund Scheme(TUFS)”	Power loom Service Center, Hyderabad in association with FAPCCI, Hyderabad.	14.11.2011	Presentation of Research Papers

18	Dr. K. Mayuri, CPI	NAIP Component 1 Annual Workshop	NASC, New Delhi	15.11.2011 to 16.11.2011	Present Work done Report
19	Dr.T.V.Hymav athi, Associate Professor	5th FOODWOR LD INDIA	FICCI India ITC Maratha, Mumbai.	16.11.2011& 17.11.2011	Participation
20	Dr.K.Uma Devi, Professor and Ms. T.Supraja, Assistant Professor	National conference on “Biological disaster management – A step towards building national capacity & resilience – Role of industry under Public Private Partnership”	National Disastermanage ment authority and FICCI	12.12.2011& 13.12.2011	Participation
21	Dr Mahalakshmi V Reddy Professor and Head and Ms Shireen Himabindu, PhD Student	Preconferenc e workshop on "Innovation and Usability in Product Development "	Indian Society of Ergonomics, at IIT Madras	13.12.2011 to 14.12.2011	Participation
22	Dr.T.N.V. Padmavathi, Part time lecturer		Tumkur University, Bangalore	15.12.2011.	Presentation of a paper titled“Effect of low dose gama rays on finger millet – A preliminary study”
23	Dr Mahalakshmi V. Reddy, Professor	HWWE 2011Confere nce	Indian Society of Ergonomics, at IIT Madras	15.12.2011 to 17.12.2011	Presentation of Research Papers

	Dept. of RMCS				
25	Dr T Neeraja Professor Dept. of RMCS	HWWE 2011 Conference	Indian Society of Ergonomics, at IIT Madras	15.12.2011 to 17.12.2011	Presentation of Research Papers
26	Dr D Ratna Kumari Assoc.Prof Dept. of RMCS	HWWE 2011 Conference	Indian Society of Ergonomics, at IIT Madras	15.12.2011 to 17.12.2011	Presentation of Research Papers
27	Dr.K.Uma Maheswari, Professor , Dept. of FDNT	Conference on “Sustainable food security and safety”	Geetham Institute of Science, Visakhapatnam,	20.12.2011	Presented a paper “Utilization of microencapsulated fruit and vegetable powders as colourants in value added products”
28	Dr.TNV. Padmavathi, Part time lecturer at on	Conference on “Sustainable food security and safety”	Geetham Institute of Science, Visakhapatnam	21.12. 2011.	Presented a paper titled “Post harvest, microbial and pigment changes on radiation in red chillies”
29	Dr. D. Anitha Assoc. professor and Head	A workshop on reframing of syllabus for intermediate courses	Intermediate board, Nampally	26.12.2011 to 30.12.2011	The syllabus of two courses was reframed for implementation from this academic year onwards.
27	Dr. K. Mayuri, CPI	e- courses Review meeting	KAB-II, New Delhi	29.12.2011	Present work done report and discuss future work schedule
28	Dr.D.Anitha, Assoc. Professor and	A seminar on Handloom mark was	Indoor auditorium of College of Home Science,	7.01.2012	To create the awareness among the

	Head	organized in collaboration with the Ministry of Textiles & Textile Committee, Hyderabad.	Hyderabad.		youth about the 'Handloom Mark'
29	Dr.T.V.Hymavathi, Associate Professor	First Grain Conference	ICC India, New Delhi	16.01.2012 to 17.01.2012	Presented a paper on "Physico-chemical, nutritional, sensory quality of soy fortified gluten free pearl millet vermicelli"
30	Dr T Neeraja, Professor	'Ergonomic Workplace Analysis and Healthcare Ergonomics'	RECOUP Neuromusculoskeletal Rehabilitation Centre at Bangalore	19.01.2012 to 22.01.2012	Participation
31	Dr. D. Anitha Assoc. Professor and Head	Workshop on "Raw Silk-reeling and testing" organized by Central Silk Board at Bangalore.	Central Silk Board , Bangalore	30.01.2012 to 2.02.2012	Methods of evaluating silk fiber during reeling and subjective evaluation for grading silk
32	Dr. K. Mayuri, CPI	Launching of e- courses project of Agricultural Engineering.	Anand Agricultural University, ANAND	02.02.2012	Resource person for discussing on processes involved in e-courses project
33	Faculty of RMCS and P G Students	Methodologies for "Ergonomic Workplace Analysis"	Mr. Ajeesh P S (MPT – Orthopedics), and Ms Jeena Jose (MPT – Musculoskeletal Disorders and Sports) from RECOUP, Bangalore	08.02.2012 to 09.02.2012	Participation & Hands on Experiences in working with ergonomic tools and survey inventories

34	Dr.A. Sarada Devi Dean, college of Home science Dr.D.Anitha, Assoc. Professor and Head	CAFT- H.Sc 21 days training programme on Ergonomics - “Functional Clothing Needs of Special Population”	ANGRAU, Hyderabad	6.02.2012	To help trainees in designing garments for special purposes
35	Dr. K.Aparna, Assistant Professor	National Seminar on “Obesity – A global epidemic – strategies for prevention and control”	JMJ College, Tenali	7.02.2012	Presented a talk on “Utilization of Phytosterols as a functional ingredient for risk reduction of obesity related Cardio Vascular Diseases”.
36	Faculty Members of Department of HDFS	“Interactive video production and video editing”	Loyola Academy, UG and PG college, Alwal, Hyderabad	07.02.2012 to 17-02-2012	Hands-on experience in Video editing
37	Dr. D. Anitha Assoc. Professor and Head	Workshop on Textbook writing for first year courses (Fashion garment designing)	State Institute of Vocational Education, BIE, Hyderabad.	9.02.2012	Framing syllabus
38	Dr.A. Sarada Devi Dean, Faculty of Home science and Dr. D. Anitha Assoc. Professor and Head	25 th National Seminar on “The Emerging Trends in Textiles and Handlooms”	The institution of engineers (India), khairatabad,Hyderabad.	24.02.2012 to 25.02.2012	To gain knowledge on“The Emerging Trends in Textiles and Handlooms”

39	DR. M. Sarada Devi	National seminar on "Gender Roles Across the Cultures	Mahatma Gandhi National Institute of Research and Social action (MGNIRSA) Domalaguda, Hyderabad	February 23-24	Research Notes presentation
40	Dr T Neeraja, Professor, Dr D Ratna Kumari, Associate Professor, and Ms E Shireen Himabindu, Ph D Student	National Conference on "Role Of Financial Services In Green And Renewable Areas At Grass Root Levels"	Centre for Financial Services of Aurora's Business School at FAPCCI.	25.02.2012	Participation
41	Dr.Sucharitha Devi, Assistant Professor	National seminar on "Developmental concern of adolescents – Food Security, Life skills education – Transfer of science and technology"	Sri Venkateswara University, Tirupathi	6.03.2012 to 07.03.2012	Participation
42	Dr Mahalakshmi V Reddy, Professor and Dr P Radha Rani, Associate Professor	EDU Tech 2012, Technologies for Higher Education in Action,	ISB, Srini Raju Centre for IT and the Networked Economy, at ISB, Hyderabad	06.03.2012	Participation
43	Dr.A.Padma, Professor University Head	Dr. A. Padma attended a Global Conference on "Women in Agriculture"	NAAS complex, New Delhi.	13.03.2012 to 1.03.2012	To attend Global Conference on "Women in Agriculture"
44	Dr. T. Sarah Kamala	"Women's issues – Obstacles and	International Association of Women – Asian	27.03.2012 to 28.03.2012	Participation

		Opportunities ”	Women Film Festival and Dept. of journalism & Mass communication, Osmania University, Hyderabad		
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4. Popular articles published:

Sl. No.	Name / Designation	Title	Magazine / news paper / news letter	Date / month / year
1	DR. M. Sarada Devi	Articles on Counseling	Vaaritha News paper	Every Saturday from December 2010 to till today
2	Dr.K.Uma Devi, Professor	“Padandi tindam peeche”	daily news paper Ee Nadu – Sukhibhava	13 th September 2011.
3	Dr P Radha Rani	“Food Adulteration Testing” in telugu	State daily newspaper ‘Ee Nadu’	11.10.2011
4	Dr. S. Ratna Kumari	Home Science - RHWEP – ‘Home Science, the road not taken’	Hyderabad 20-2-12	News Daily, post noon
5	Dr. S. Ratna Kumari	Khali samayam – sadviniyogam	6-1-12 1.30 pm	Hyderabad

5. Radio talks:

Sl. No.	Name / Designation	Title	Date of broadcast	Place / venue
1	Dr. V. Vijayalakshmi	Amrutha Tulyamaina Thalli Palu	4 th Aug 2011	Hyderabad
2	Dr.K.Uma Maheswari, Professor	“Grameena prajalaku takkuva kharchu tho ekkuvu poshakalu gala aaharam”	4 th September 2011	Hyderabad
3	Dr. V.Vijaya Lakshmi, Professor on	“Diploma courses on catering management”	2 nd January 2012	Hyderabad
4	Dr P Radha Rani	Women as Consumers	15.03.2012	AIR Hyderabad
5	Dr.A. Sarada Devi Dean, Faculty of Home science	Eco holi colours	April 2012	AIR, Hyderabad

6. T.V. Programmes:

Sl. No.	Name / Designation	Title	Date of Telecast	Place / venue
1.	Students of M.Sc Foods and Nutrition	Nutrition related T.V. shows		Hyderabad
2.	Dr.V.Vijaya Lakshmi, Professor	“New Recommended Dietary Allowances”	14 th Sept 2011	DD-I, Hyderabad
3	Dr.V.Vijaya Lakshmi, Professor	“Balanced diet for women”	8 th March 2012.	Zee 24 Hours channel
4	Dr.Anurag Chaturvedi, Associate Dean	“Reheating of oils – Problems and health effects”.	14 th March 2012	Zee 24 Hours ch
5.	Dr. S. Ratna Kumari	Orpu – Nerpu - talk show	14-3-2012	Vanitha channel, Hyderabad
6.	Dr.S.Shobha Professor	“Diet in Hyper Tension”;	18 th March 2012	Zee 24 Hours channel
7.	Dr.V.Vijaya Lakshmi, Professor	“Refrigeration of foods”	18 th March 2012	Zee 24 Hours channel
8,	Dr.V.Vijaya Lakshmi, Professor	“Low Sodium foods”	21 st March 2012	Zee 24 Hours channel
9.	Dr.S.Shobha Professor	“Substitution of low cost foods with dense nutrients”.	24 th March 2012	Zee 24 Hours channel

7. Extension activities:

Sl. No	Name / Designation	Programme	Place, Date	Purpose
1.	Dr.M.Sarada Devi Professor	ZREAC – Meeting at Adilabad	Adilabad April 2011	Participation in women focus programmes
2.	Dr. K. Uma Devi, Professor, Dr. S. Sucharitha Devi, Dr. K. Aparna & Ms. T. Supraja.	Exhibition held at The exhibits were balanced diet, Cooked and raw foods for adolescent girls and products of several enterprises from each department	Jubilee hall (Assembly premises), Hyd, 15 th April 2011	On the occasion of launching programme for adolescent girls “Sabla” in 7 Districts of A.P. The exhibition was inaugurated by Honorable Chief Minister Mr. Kiran Kumar Reddy.

		were displayed. 50 adolescent girls participated in the programme.		
3.	Department of Foods & Nutrition	Diabetes exhibition was organized by in collaboration with NIMS, Punjagutta	Satya Sai Nigamagam on 21 st and 22 nd May 2011	Diets related to diabetes and health foods for control of diabetes were displayed in one stall by the department
4.	Dr. K. Uma Maheswari, Professor and Dr. K. Uma Devi, Professors	Health camps	9 th , 16 th , 24 th & 29 th June 2011	Various villages around Lambapur and Sherepally mandals of Nalgonda district as a part of BARC project.
5.	Dr. K. Uma Devi, Professor, Dr.Sara Kamala Assoc.Prof Dr. S. Sucharitha Devi, Assistant Professor, Ms. T. Supraja, Assistant Professor.	Education Fair	Nizam College grounds from 11 th to 13 th June 2011	A stall was arranged by College of Home Science regarding education systems and career opportunities of Home Science education.
6.	Faculty of Home Science	Open house	College of Home Science, Hyderabad, 16.06.2011	Curriculum, technologies and UG – PG labs
8.	T.V.Hymavathi	Doordarshan – News and Views Live telecast program	26 th March 2012	About millet health benefits and Millet food festival
9.	Faculty of Home Science, ANGRAU and Department of Agriculture	Millet Fest 2012	Hyderabad, 24 th to 26 th March 2012	Creating awareness to the public regarding utilization of millets and sale of millet products including food court serving millet based foods.

8. Visitors:

S.No.	Name/Address of the visitor	Purpose	Date
1.	Visitors from Kansas State University, Dr. April Mason, Provost and Senior Vice President; Dr. R. Michael Philson, Associate Provost – Office of International programs; Dr. Gary Pierzynski, Interim Dean and Director – College of Agriculture and K-State Research and Extension; Dr. Sajid Alavi, Associate Professor- Department of Grain Science and Industry, College of Agriculture; Dr. Barry Michie, Director, International Program Support – Office of International Programs.	For interaction with the scientists of ANGRAU regarding various issues like establishment of Pilot scale extrusion plant, student & faculty exchange programmes between KSU and ANGRAU.	5.04.2011
2.	Women entrepreneurs from 'Sannidhi' boutique, Chennai visited the training cum production centre	To gain knowledge on printing	2.6.2011
3.	Mr. Anand coordinator from Gemini TV visited dyeing and printing unit.	To know about the printing techniques and work process	14.6.2011
4.	Dr. Santharam, Former dean of P.G Vice chancellor sri. Nagi Reddy garu	Dr. Shantaram garu discussed about the trainings required for rural women in his home town	16.6.2011
5.	Sri V Nagi Reddy, IAS, Principal Secretary to Agriculture & Cooperation, Govt. of A.P & the Vice Chancellor, ANGRAU.	In connection with Open House	16.06.2011
6.	Ms Prathyusha, Merchandiser, NSL Textiles, Hyderabad	Merchandising calendar, role and responsibilities of merchandiser	18.6.2011
7.	Dr. Sudheer Maram Quality Control Officer, Marasu Foods, U.K.	To deliver a lecture on chocolate industry	August 2011
8.	Home Science students of TNAU visited the department.	To know about the activities of the department	19.8.2011
9.	Dr. Anjali Karolia, Professor & Head, Dept. of Textiles and Clothing, SNDT University, Baroda	“Product Diversification”	15.09.2011
10.	Visit of Pre Primary Teacher trainees to the department.	They were given inputs on the short term training programme offered by the department.	16.9.2011
11.	Visit of Fashion Designer Mr.Jashuva from Thrithva khadi and craft store to	To utilize the machinery set up of experiential learning programme for production purpose and for	22.10.2011

	the department.	running a small garment unit	
12.	A team of 35 students from College of Home Science, Dharwad University visited the department as a part of study tour.	The students were explained about the various courses offered in the department and were also shown around the labs.	21.11.2011
13.	Visit of Hon'ble Sri. Damodar Raja Narasimha Reddy Deputy CM, AP state.	<p>Research work carried out in the area of natural fibers, natural colors and other research outcomes from the State Research Projects was on display.</p> <p>A demonstration on printing and an exhibition cum Sale of the printed saris organised by Training cum Production Unit, Department of Apparel & Textiles and also To review work being done at the Post Graduate and Research Centre and the All India Coordinated Research Project in Home Science (AICRP) and visit the millet processing facility at PG & RC</p>	22.11.2011.
15.	Visit of Assistant Chemical Engineers from Pollution Control Board to the department of Apparel and Textiles	To know about various certificate courses offered and to visit training cum production unit in the department	25.11.2011.
16.	A visit was made by Anitha (M.D of KENOX software solutions) from Vizag to the department.	To orient on various activities in the department and was shown around Training cum Production unit in the department.	8.12.2011.
17.	A team of 50 students from College of Home Science, Pantnagar visited the department as a part of study tour.	They have enquired about M.Sc, Ph.D programmes and B.Sc Fashion Technology (a new course) offered in the department.	2.01.2012
18.	Dr. Subramanian, Principal Jaya Engineering College, Chennai.	New areas of research in textiles and apparel Evaluating low stress mechanical properties of fabrics	9.01.2012
19.	Dr Debkumar Chakrabarti, Professor & Head, Department of Design, IIT, Guwahati, Assam,	To deliver guest lecture to the CAFT training participants, Faculty staff and P G students of the department	02.02.2012
20.	Dr.G.G.Ray, Professor & Head, Dir. Industrial Design Center IIT Powai, Bombay.	To deliver guest lecture to the staff and P G students of the department	03.02.2012

21.	Dr.B.R.Chakravarthy, Professor , Dept. of Industrial Design, IIT Powai, Bombay,	To deliver guest lecture to the CAFT training participants, Faculty staff and P G students of the department	04.02.2012
22.	Dr.Majumdar, Assoc. Director, DRDO, New Delhi,	To give guest lecture to the CAFT training participants, Faculty staff and P G students of the department	06.02.2012
23.	Dr.J.Hayavadana, Prof, Dept. of Textile Technology, O U	To deliver guest lecture to the CAFT training participants, Faculty staff and P G students of the department	07.02.2012
24.	Dr P Geervani, Former V C, SPMU, Tirupathi and Nominated Member ICAR	To give guest lecture to the CAFT training participants, Faculty staff and P G students of the department	08.02.2012
25.	Mr. Ajeesh P S (MPT – Orthopedics), RECOUP Bangalore	To give guest lecture to the CAFT training participants, Faculty staff and P G students of the department	09.02.2012
26.	Ms Jeena Jose (MPT – Musculoskeletal Disorders and Sports), RECOUP Bangalore	To give guest lecture to the CAFT training participants, Faculty staff and P G students of the department	10.02.2012
27.	Ar. Sudhakar, Prof & Head, SPA, JNTU	To deliver guest lecture to the staff and P G students of the department	15.02.2012
28.	Ar. Aditya, Asst. Prof. SPA, JNTU	To give CAFT training participants, Faculty guest lecture to the staff and P G students of the department	16.02.2012
29.	Visit by trainees of CAFT training programme to the department as a part of their training programme.	They were taken around labs in the department and were explained about the courses offered in the department.	16.2.2012
30.	Visit was made by pre primary teacher training members to the department.	They were shown around different labs in the department and were explained about the various courses offered. Demonstration on block printing was given to them as a part of the programme	15.03.2012
31.	Shri Kanna Lakshminarayana, Minister for Agriculture, Govt. of A.P.	To review work being done at the Post Graduate and Research Centre and the All India Coordinated Research Project in Home Science (AICRP) and visit the millet processing facility at PG & RC	15.03.2012

Other extension activities

- College of Home Science Participation in KAB – Educational mela at Nizam college grounds, Hyderabadso
- Also made Publicity and press meet arrangements for Handloom Marg organized by Dept of APTX and Govt. of A.P & Central Board of Handlooms.
- Vanamahosthava Programme was also conducted at biodiversity Gardens, in ANGRAU on 2.6.2011 all the staff have participated and planted trees.
- A campaign was conducted by the UG 2nd year students about women empowerment of Home science along with the collaboration of department of Adult Education at a village in shamshabad Mandal called Gurranguda and also they conducted demonstrations about wealth from waste, candle making, Phenyl making, surf preparation, janata fridge, hay basket and also some nutritious recipies. A puppet show was organized about the awareness of various social evils that are present in the rural areas. Around 30-40 women participated in the campaign.
- Four P G Students participated in the Building Design Competition held by Birla White Yuvaratna Awards 2011.

MILLET FEST 2012 HEALTH MOMENTOUS

Millets are potential grains among the cereal grains with superior nutrient and nutraceutical components and hence, could be a worthy addition to one's diet. Among them Jowar, Bajra, Ragi, Korra, Variga and Sama are mostly used in AP. Nutritionally they are fair source of proteins, which are highly digestible and an excellent source of dietary fibre with good amounts of soluble and insoluble fractions. The carbohydrate in millet content is low and slowly digestible, which makes the millets a nature's gift for the modern mankind engaged in sedentary activities.

Today there is a significant change in the lifestyle of people owing to the rapid industrialization, improved socio-economic status, enhanced health facilities and increased life expectancy. Economic affluence coupled with sedentary lifestyles and changing food patterns are contributing to several chronic degenerative diseases such as obesity, diabetes mellitus, cardiovascular diseases, cancer, etc.

Dietary modification, weight control, and regular exercise are the main approaches in the management of degenerative diseases, diet being the sheet anchor. New research findings indicate the potential value of millet based diets in prevention of such disorders. In fact, the preventive role of corrective nutrition is an ever evolving process. Thus, for the health conscious genre of the present world, millets are perhaps one more addition to the proliferating list of healthy foods, because of their nutritional superiority. With the modern people chasing ready to cook food items, the nutritive millets have faded into oblivion and its time to re-promote millets for universal consumption and utilization by making them a part of daily diet.

The major constraint discouraging their consumption was the drudgery associated with its processing. However this constraint to extend utilization of millet foods is being responded through research and development in improved processing machinery and technology with the

coordinated efforts of Acharya N.G. Ranga Agricultural University and Department of Agriculture, Government of A.P.

Millet Fest 2012 from 24-26 March 2012 elucidates the knowledge of the forgotten grains to the citizens from all walks of life in twin cities with the following objectives.

1. To create awareness about nutritional and health benefits of millets for acceptance in diets.
2. To showcase the drudgery free processing and product making technologies to the food entrepreneurs.
3. To popularize the millet based breakfast, main meal and snack recipes for inclusion in daily menu as well as in daily diets.
4. To increase the area of millet cultivation by creating demand for millet products.

The participants include research institutions, National and regional level nongovernmental organisations, Krishi Vigyan Kendras, entrepreneurs engaged in processing, product making and marketing like.

- **ICAR** Projects- NAIP
- **ANGRAU** - [C.H.Sc.](#), CFST, KVKs, ARS,
- Central Institutions: NIN and Food & Nutrition board
- Health care and diet counseling: Sanjaeevani , Diaita, Sayani's
- NGOs: DDS, RDS, Earh [360.in](#), Mathesis, IPWWA, Mahila udyog
- Entrepreneurs : VSR, DUV, AMMA,
- Hotels: Kritunga, Rayalaseema ruchulu, Annapurna, Delicious caterers

The activities conducted during these three days were

- Exhibition -Millet nutrition and technology information, Processing machinery and products.
- Sales- grains, suji, flour, ready to cook mixes, traditional snacks, pasta, baked products, millet meal etc.
- Events- Demonstrations, cookery contest, health check-up, diet counseling.



Release of Booklet on Millets by Sri Kanna Lakshminarayana, Hon.Minister of Agriculture and ATM, Govt. of Andhra Pradesh at Inaugural function of Millet Fest – 2012 on 24th March, 2012.



Interaction with Entrepreneurs at Millet Fest 2012, by the Kanna Lakshminarayana, Hon.Minister of Agriculture and ATM, Govt. of Andhra Pradesh during Inaugural function.

**WORK PLAN PROPOSALS CENTRE OF ADVANCED FACULTY TRAINING
FOR THE YEAR 2012 - 13**

FOR APPROVAL

**College of Home Science, Post Graduate & Research Centre
Rajendranagar, Hyderabad - 500 030.**

I. OBJECTIVES

- To serve as a national resource and training centre for faculty in the frontier areas of Home science.
- To update the curriculum and courses of Faculty of Home Science to strengthen teaching and evaluation at UG and PG level.
- To support the government in training personnel.
- To disseminate home science information to personnel of different sectors.

**II. OUTPUTS/PROGRAMMES TO BE IMPLEMENTED DURING THE YEAR 2012
-2013**

OBJECTIVE 1

To serve as a national resource and training centre for faculty in the field of Home Science in State Agricultural Universities.

ACTION PLAN

A. Short courses: Conducting 21 Days Training programmes in priority areas of Home Science as per the need.

Topic for Training Programme: “Experiential Learning Programme (ELP) In Home Science Under SAU’s - Guidelines For Programme Implementation ”

Justification of the proposed programme : The credit hours under Experiential Learning Programme (EPL) for Home Science undergraduates has been increased from 10 credits to 20 credits for the batch admitted in 2009-10. The number of working days under this programme will be 180 days. The student has to gain firsthand knowledge in the manufacturing process of different products in each department. They acquire various skills in surveying a market to identify the needs of the target market, develop need based designs for the selected group and process them into products through use of advanced equipment and machinery. In this process they involve in various roles as merchandiser, as quality control inspector besides maintaining the enterprise with a smooth flow of goods from raw material to the final customer. The students after acquiring these skills have the opportunity for self employment in various fields.

Since this being a new concept from ICAR education system, managing ELP units is a challenging task to the faculty involved in offering this programme. They need to be oriented towards successful implementation of this programme.

Venue with full postal/e-mail address and office phone/fax numbers:

- a. **Venue** : Post Graduate & Research Centre, ANGRAU, Rajendranagar
- b. **Email address** : cafhscangrau@gmail.com
- c. **Phone number** : 040 24015057, Fax No. : 040 24015057

Proposed dates: From 16th November 2012– to 6th December 2012

Other Priority areas identified for Short Courses

- Consumer Product Enhancement through Nanotechnology
- Versatile textiles through Nanotechnology
- Managerial Issues and Challenges in Adolescence
- ICT for professionalism in Home Science education
- Obesity – a public health disorder – prevention strategies
- Occupational Health and Safety issues and management in formal and informal sector
- Geriatric nutrition, physical and psychosocial challenges

OBJECTIVE 1 B. ALLOCATION OF SEATS UNDER PG PROGRAMME

Provision of seats in M. Sc. and Ph. D. in Home Science to outside State candidates selected through a common test conducted by ICAR.

OBJECTIVE 1 C. RESEARCH

ON –GOING RESEARCH

ICAR – NAIP : Value Chain in Natural Dyes

RKVY projects:

- Value addition and scaling up of value added products through development of enterprises and establishing market linkages
- Drought Tolerance in Rice through Marker Assisted Selection'

NABARD Project: Empowering Tribal Families for Sustainable Quality Life in Fulfilling psycho-social needs-An integrated developmental initiative

BARC Project:

- Effect of ionizing radiation on morphological, physiological, molecular aspects in food crops
- Development of a rapid multiplex PCR assay for the detection of mycotoxin production in foods and grains
- Determination of PCR-RFLP profiles of Indian Fish Species using Agilent DNA Fish ID kit and Agilent 2100 Bioanalyzer

Fresh Proposals are sent for approval to_RKVY DST, DBT, NABARD, APCOST
DST - Trainers Training on Food Adulteration to State Functionaries

OBJECTIVE 2

To update the curriculum and courses of Home Science to strengthen teaching and evaluation at UG and PG level

ACTION PLAN

Undertake necessary revision in UG and PG curriculum of Home Science to cope with changing needs, and implement the programme 2012-13 admitted batch.

OBJECTIVE 3

To support the Government in training personnel and in implementation and evaluation of Home Science programmes.

ACTION PLAN

Assessing and developing the training needs of the line departments (Women's Development & Child Welfare; Social & Tribal Welfare, Panchayat Raj & Rural Development) through meetings and group discussions. Trainings are planned to train the functionaries from Women Development and Child Welfare department on request of the WDCW dept. Home Science information through mass media (TV, Radio and Press) for awareness creation.

OBJECTIVE 4

To disseminate Home Science information to personnel of different sectors.

ACTION PLAN

Bring out the CAFT News letter for circulation among the line departments and the organizations involved in home science related programmes.

Special issues of news letters on important topics related to Apparel and Clothing, Foods & Nutrition, Resource Management and Consumer Sciences, Human Development & Family Studies, Home Science Extension and Education Management will be brought out.

These will be made access to public through CAFT web portal.

CAFT web portal will be brought to the access of public from June 2012. Update CAFT web portal will be taken up time to time.

III . EXPECTED OUTCOME BY THE END OF 2012-13

Provide common Under-Graduate e-courseware for 87 courses as resource material accessible to all the Agricultural Universities through ANGRAU website by the end of June 2012. This includes Course contents - Lessons and Practical Manual for Classroom teaching and providing Practical training.

All the class rooms and students amenities will be updated with modern infrastructure facilities out of the funds provided in development grants.

Organize National Level workshop for senior faculty members of SAU'S

- to bring in change the nomenclature – Home Science,
- to explore new opportunities for under-graduate and post-graduates
- Reorientation of Home Science curriculum for Integrated programmes
- to evolve strategies for new policy issues

Instill CAFT – H.Sc web site on CAFT Home Science News (past-to present). This will be made available for public access through ANGRAU web site

Strengthening Under-Graduate and Post Graduate Education and Research in Home Science in other State Agricultural Universities.

- Faculty improvement in terms of teaching, research and extension.
- Conducting need based training multi centric studies in frontier areas of Home Science
- Provide feedback to the planners and policy makers on the outcome of significant research works.

IV. Budget Proposal for the year 2012-13

S. No.	Particulars	Amount (Rs.)
1	21 days training (One)	3,75,000-00
2	TA / DA	50,000-00
3	Purchase of books	30,000-00
4	CAFT Portal Design and Update	1,00,000-00
5	Organizing National Level Workshop*	2,50,000.00
6	Documentation of Guest lecturers/ Demonstrations in DVD / Video lesson	50,000-00
7	Recurring contingencies	2,00,000-00
8	Staff Salary	4,00,000-00
	GRAND TOTAL Rs.	14,55,000-00

(RUPEES FOURTEEN LAKHS FIFTY FIVE THOUSAND ONLY)

* Organizing National Level workshop for 2 Days to bring in change in nomenclature of Home Science and design new strategies for faculty growth in XII Plan. Expenditure proposed will include T.A & D.A, Hospitality etc.

Grams: 'Agriversity'
Fax: 91-040-23230781
Phone: Off: 040-20025317
Resi: 040-23545742
Mobile: 98490-47906

Email-mahalakshmi.v.reddy@gmail.com



**CENTRE OF ADVANCED FACULTY TRAINING - HOME SCIENCE
POST GRADUATE & RESEARCH CENTRE
ACHARYA N.G. RANGA AGRICULTURAL UNIVERSITY
RAJENDRANAGAR, HYDERABAD-500 030. (A.P)**

**Prof.(Mrs). Mahalakshmi V.Reddy
Director- CAFT Home Science**

To
Dr. Kusumakar Sharma
Assistant Director General (HRD)
Education Division
I.C.A.R; Krishi Anusandhan Bhavan-II
New Delhi-110012.

Lr.No. CAFT/H.Sc/ 2012; Date:10-4-2012.

Sir,

Sub: Centre of Advanced Faculty Training – Home Science, Hyderabad -Submission of Annual Report and Budget for the financial year 2012-13- Reg.

Ref: 1. E-mail dated :22-3-2012 from ADG (HRD), Education division of ICAR, New Delhi.

With reference to above, I am herewith enclosing the Annual Report of CAFT H.Sc 2011 – 20122 and the budget proposal for the year 2011-12.

The AUC for the year 2011-2012, will be sent shortly.

This is for favour of information & kind necessary approval.

Thanking you,

Yours Sincerely,

MAHALAKSHMI V.REDDY

Budget Proposal for the year 2012-13

S. No.	Particulars	Amount (Rs.)
1	21 days training (One)	3,75,000-00
2	TA / DA	50,000-00
3	Purchase of books	30,000-00
4	CAFT – Home Science Portal Design	1,00,000-00
5	Organizing National Level Workshop*	2,50,000.00
6	Documentation of Guest lectures/ demonstrations in DVD as Video lesson	50,000-00
7	Recurring contingencies	2,00,000-00
8	Staff Salary	4,00,000-00
	GRAND TOTAL Rs.	14,55,000-00

(TOTAL RUPEES FOURTEEN LAKHS FIFTY FIVE THOUSAND ONLY)

*** Organizing National Level workshop for 2 Days to bring in change in nomenclature of Home Science and design new strategies for faculty growth in XII Plan. Expenditure proposed will include T.A & D.A, Hospitality etc.**

APPENDIX - I

**WORK PLAN PROPOSED FOR BY CENTRE OF ADVANCED FACULTY
TRAINING – HOME SCIENCE**

FOR THE YEAR 2011 – 12

APPENDIX – II

**WORK PLAN PROPOSALS OF CENTRE OF ADVANCED FACULTY
TRAINING – IN HOME SCIENCE
FOR THE YEAR 2012 - 13**

FOR APPROVAL

**SIGNIFICANT OUTCOME OF THE RESEARCH PROJECTS
UNDERTAKEN IN FACULTY OF HOME SCIENCE
CENTRE OF ADVANCED FACULTY TRAINING- HOME SCIENCE
FOR THE YEAR 2011 - 12**

**COLLEGE OF HOME SCIENCE, POST GRADUATE & RESEARCH
CENTRE
RAJENDRANAGAR, HYDERABAD - 500 030.**

SEVENTEENTH ANNUAL REPORT OF
CENTRE OF ADVANCED FACULTY TRAINING
– HOME SCIENCE
FOR THE YEAR 2011-2012
(April 2011 – March 2012)

With Figure

Submitted by
Dr. Mahalakshmi V.Reddy
Programme Director, CAFT –Home Science



CENTRE OF ADVANCED FACULTY TRAINING
IN HOME SCIENCE
POST GRADUATE & RESEARCH CENTRE
ACHARYA N.G. RANGA AGRICULTURAL UNIVERSITY
RAJENDRANAGAR: HYDERABAD – 500 030