



Kakatiya University, Warangal from 6.11.2015 to 10.11.2015, Ms. Ch. Lakshmi, Assistant Professor, and NSS P.O. APTX department.

Miss. Syed Salima Asra I.D.No. HH/2013-18, III year B.Sc. (Hons.) Home science participated in 4th Hyderabad Horse Show 2015 organized by Hyderabad Polo and Riding Club, Telangana Tourism and Telangana Equestrian Association on 11th October, 2015. She also participated in NCC DAY camp and NCC DAY held from 16-11-2015 to 22-11-2015 at PARADE grounds Secunderabad. She won BEST CADET unit-1(T) R & V.



Miss. Asra Third year Bsc.(Hons.) Home science got selected for RDC 2016. Even with two different horses she could do best and got selected. She is the only student from 6 farm universities (AGRL, Vet. Hort. Univ from both A.P & Telangana) got selected and sent for RDC 2016. She was one among the NCC Cadet who met Prime Minister Sri Narendra Modi at Delhi in his home. She also stood first in rifle shooting contest conducted at NCC unit at Secunderabad and actively participated in literary events.



### Upcoming events

1. CAFT Home Science is conducting workshop on Thrust areas for advanced research in Home Science on 10th March 2016 at Committee hall, College of Home Science, Hyderabad.
2. Consumer Day celebrations on 15th March 2016, by the Department of Resource Management and Consumer Sciences.
3. NISAGNET first workshop to be held on 17th March 2016, at Committee hall, College of Home Science, Hyderabad.

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### Chief Editor

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### Issue Editor

**Dr. V. Vijaya Lakshmi**  
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### SUPERANNUATION

#### Dr Anurag Chaturvedi

Former Dean of  
Home Science  
PJTSAU, Hyderabad.  
Retired on November 2015



#### Dr. Mahalakshmi V. Reddy

Associate Dean &  
Director - CAFT H.Sc.  
College of Home Science  
Hyderabad.  
Retiring in April 2016



#### Dr. R. Manorama

Principal Scientist and Head  
Quality Control Lab  
Rajendranagar  
Hyderabad  
Retiring in April 2016



#### Dr. Uma Maheshwari

will be taking over the  
charge of CAFT-H.Sc.  
Director from 1st April 2016

### Mail Box



Center for Advanced Faculty Training in Home Science  
Professor Jayashankar Telangana State Agricultural University, Hyderabad.



# CAFT - H.Sc. NEWS LETTER

October 2015 - March 2016

Issue No. 10  
October 2015 - March 2016

### News in Brief

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#### On going Activity

CAFT H.Sc. workshop on 10th March 2016 to Faculty of Home Science on Thrust Areas for Advance Research and Training in Home Science.

#### Proposed CAFT H.Sc. Training

XXIX CAFT Training Programme "Development Communication media: Impact measurement through digital tools and techniques"

## agMOOCs consortium on "Nutrition Therapeutics and Health"

By Dr.V.Vijayalakshmi, Prof & Head, Dept.of Foods and Nutrition

agMOOCs is an online platform designed to help students, professionals and organizations to acquire and enhance knowledge and skills in the agriculture domain. This platform provides free access to numerous high quality courses offered online by renowned faculty from the premier institutes of the country. The intention is to reach out to thousands of learners through these MOOCs thus enabling them to access higher agricultural education. This course on **Nutrition Therapeutics and Health** was decided as one of the courses in the agriculture massive open online courses (agMOOCs) in a collaborative project of Commonwealth of Learning, Canada, IIT, Kanpur and NPTEL, Chennai. Registration was open at <http://agmoocs.in>. The course started on January 11<sup>th</sup> 2016 with a duration of 8 weeks i.e., till March 5<sup>th</sup> 2016. The entire course was recorded in the studio of IIT, Kanpur. About 2300 users registered for the course from India and 26 more countries. The registered participants were from various educational backgrounds varying from undergraduates to doctorates. The course content was carried on with forum discussions, hangouts where all the registered participants had a chance to clear their doubts, add some more material to the course, discuss etc. Extra resource material was added from time to time. A lot of appreciation was received from the participants. Regular announcements were given by the project team on assignment submission, release of quizzes etc.

Participation and Competency certificates will be awarded to qualifying students based on their involvement and performance.

#### Course contents and topics

Relationship between Food, Nutrition and Health	Meal Planning and Food Sanitation and Hygiene
Recommended Dietary Allowances	Principles of Therapeutic Nutrition
Digestion, Absorption and Utilization of Nutrients	Therapeutic Adaptation of Normal Diet
Importance of Various Nutrients	Dietary Guidelines for Various Disorders

The course was aimed at introducing the right information on the subject to outreach maximum number of people



Home page of the Course



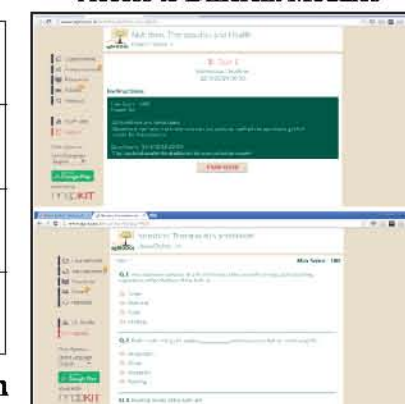
Access to Lecture Contents



Delivering Lectures



Access to Different Modules



Quiz in the course



### ICT mediated extension services for dissemination of quality life technologies, funded under RKVY

The vernacular (Telugu) interactive web portal [www.vigyanaaditha.com](http://www.vigyanaaditha.com) has been developed under the said project which aimed to promote quality life by reading and sharing of the information. The project was started in the year 2012-13 and all the process of collecting information, layout designing, creating web portal, uploading articles ended in 2014 and officially it was inaugurated on 14 May, 2014. New articles were still being posted and it will go on. A total of Rs. 4.0 lakhs was allocated for the year 2014-15

#### Special feature of web portal:

- Information in telugu
- Information regarding seven categories of quality life technologies viz., nutrition, health, environment, child development, sanitation, developmental programmes, and solar energy. Under every category relevant articles with visuals are posted. So far there are 80 articles contributed
- Flash banners with powerful messages relevant to content of the article
- Provision for web conferencing with experts through skype
- Web applications to calculate BMI and Body frame
- Face book and twitter accounts for interactivity through social media



#### Promotion

The web portal was promoted through online, offline and miscellaneous strategies. Online included face book postings (50), email campaign (1,00,000), SEO (search engine optimization) PPC and sharing with other websites, offline voice and text message service and word of mouth, web quiz and web portal membership. A data base of 2 lakh mobile numbers and one lakh email addresses of extension personnel from health and ICDS, school teachers and engineering personnel of rural water and sanitation wings was developed for this purpose.

#### Results

Number of

- different times website accessed: 1317 /Month
- different users accessed website: 816 /Month
- different pages viewed by Total visitors: 5735 /Month
- Average pages viewed by all viewers: 4.35 Pages
- different countries viewers are visiting website: 15

- different cities viewers are visiting website: 56
- different Browsers viewers using to access website: 16
- viewers access website through mobile: 396
- viewers access website through Tab: 24
- Category of information highly utilized: Health & Nutrition

### A flagship programme of student communication

**PJTSAU vaari Chenukaburlu** (PJTSAU's Farm information) which is an innovative ICT programme, involving students of Agriculture, Agricultural Engineering and Home Science to disseminate technological information to rural families through All India Radio (AIR) started in the month of January 2015. It has a noble intention of linking the innovations to the farming community of Telangana, utilizing the students' creativity. Chenukaburlu plays a dual role. Firstly it upgrades students' knowledge on the subject, enhances their communication-skill, builds confidence, inculcates commitment towards interaction with clientele. Secondly, the farming community of the State is updated with the latest farming techniques and developments.

The following are the objectives of the programme

- To provide an opportunity to the student community to exhibit their creativity
  - To encourage the students for generation of innovative ideas in transfer of technology through radio communication
  - To provide the students the real life situations of farming community on one hand and furnish them with latest developments in the field of agriculture and allied sectors on the other hand.
  - To benefit the farming with technological information
- Audio theatre established in Vistarana Studio, College of Home Science, Hyderabad with funds received under RKVY as a part of project ICT mediated extension services for dissemination of quality life technologies is being used for recording and editing of radio programmes.

A slot of 30 minutes of duration on every Wednesday between 1.30-2.00 pm was booked as sponsored programme. Two workshops were organized involving 90 students of the three faculties, where students capacities in writing various radio formats in Telangana dialect, recording and editing were developed. The programme was inaugurated by Honourable Chief Minister Sri. K. Chandrasekhar Rao on 26<sup>th</sup> January 2015, with release of Signature tune, exclusively developed for the programme for brand image and first episode was broadcasted on 28.01.2015. Up to May 2015, 18 episodes for 9 hours were relayed involving 50 students from four colleges. An amount of Rs.1.08 lakhs was allocated for



- Hypolipidemic effect of selected herbal crops (*Curcuma amada*, *Coleus forskohlii*, *Cissusquadrangularis* and *Acoruscalamus*) in healthy adults**  
*Elmuonzo & K. UmaMaheswari*
- Development of e – nutrition education material and assessing its effectiveness nutritional knowledge, attitude and practices of rural women**  
*Nida Fatima Hazaari & V. Vijaya Lakshmi*

### PARTICIPATION OF FACULTY IN NATIONAL AND INTERNATIONAL PROGRAMMES:

Dr. K. Uma Maheswari, Professor & Head, PGRC participated in the 47th Annual conference of Nutrition society of India held at National Institute of Nutrition, Hyderabad from 9-10-2015 to 10-10-2015 on the theme 'Nutrition and Agriculture-The Connect and Disconnect. Two posters were presented on the following topics in the conference.

Authenticity of nutritional claims of selected food products in and around local markets of Hyderabad, Telangana State by K. Rajeswari and K. Uma Maheswari

Food products prepared from micronutrient encapsulated papaya (*Carcia papaya*) and Beetroot (*Beta bulgaris*) powders- by K. Uma Maheswari, Srinath D and Chitra Purohit.

Dr. T. V. Hymavathi Professor, PG&RC Presented paper on "Role of Health Functional and Nutraceutical foods in mitigating health and Nutritional impacts of climate change on 11.2.2016 and Dr. K. Uma Maheswari, Professor, presented a paper on "Coping with climate change for food security in drought prone area on 12.2.16 at "International conference on climate change and Food Security: Ethical perspective at Golconda Hotel, from 11.2.16 to 13.2.16 conducted by Agribiotech foundation, PJTSAU, Rajendranagar-30

A research paper entitled 'Consumer preference on the choice of flooring material for residential buildings in Hyderabad city', by Sanaa Peeran, Mahalakshmi V Reddy, P Radha Rani and M Sarada Devi, was published in the Inter National Journal of Applied Research, Vol – 1, No 13, Part J, Dec. 2015

### ACHIEVEMENTS CORNER:

Dr. K. Uma Devi has been awarded Certificate of Excellence in recognition of her services in "Promotion of Egg and Spread of Nutritional Knowledge to the Public" and was felicitated by the Govt. of AP and National Egg Coordination Committee on the occasion of 'World Egg Day' celebrations of Southern India conducted at Vijayawada, A.P, India on 09.10.2015

Dr. A. Sarada Devi has become a member of the Sectorial Committee of National Agricultural Education Accreditation Board of ICAR in the area of 'Norms, New Universities/ Colleges / Programmes'.

Dr. A. Sarada Devi has been invited by The National Academy of Agricultural Sciences (NAAS) to attend a Brainstorming Session (BSS) on Mentoring Scheme under the Convener'ship of Drs. Dr. S.N. Puri, H.S. Gupta

and C. Devakumar, Fellows of the Academy on March 7, 2016.

Dr. M. Sarada Devi, Professor and Head, Dept. of Human Development & Family Studies got orders to be a Honorary Consultant as an Organizational Psychologist and Admin Counsellor to Sri. P. V. Narasimha Rao, Telangana State University for Veterinary, Animal and Fishery Sciences, Rajendranagar on 12. 11.15. She brought collaboration with Marri Channa Reddy Institute to the University.

Dr. K. Uma Maheswari, Professor & University Head was unanimously nominated as Vice-President of Indian Dietetic Association (AP Chapter) for a period of three years from 2015 to 2018.

Dr. V. Vijaya Lakshmi, Professor & Head, Department of Foods & Nutrition was nominated as member of BOS for Biochemistry and Chemistry (Food Science & Technology), Osmania University for 2 years

### COLLEGE SIGNIFICANT EVENTS

**College Day for the academic year 2014-15** was held on 6-11-2015 at the Open auditorium, College of Home Science, Hyderabad. The chief guest of the function is Dean of Student Affairs Dr. Vasudev, Dr. Anurag Chaturvedi, Dean addressed the students. Associate Dean Dr. Mahalakshmi. V. Reddy and OSA Dr. V. Vijayalakshmi presented a brief report on events of the academic year 2014-15. The best out going student for the year was Farah, I.D.No HH2012-01. The students displayed their immense talent through a splendid and colourful cultural Programme.



The staff and students of APTX Department organized Nirmithi 2015 – Keep Alive, a Graduate's Apparel Design Show at Harihara Kala Bhavan on 02.11.2015. The lead sponsor for the show was Telangana Tourism. Co-sponsors for the show were Saptagiri Hotels, AP State Financial Corporation, Ctrl S, SBH, Green Trends and Metro TV. The show was organized as a part of course work. The Registrar and Special Officer of PJTSAU, Dr. V. Praveen Rao, was the Chief Guest for the design show. Other university officials namely Dr. Vasudev, DSA, Dr. Anurag Chaturvedi, Dean, Faculty of Home Science, have graced the show with their presence.



Ms. D. Sushma, HH 2012-09, B.Sc (Hons.) Home Science Student specializing in APTX, has attended NSS State Level Mega Camp – 2015 held at



## Floral preservation by Freeze Drying Technology

The three days Training Programme was organized by Dr. Mahalakshmi V. Reddy, Principal Investigator of the research project on Floral preservation by Freeze Drying Technology was held at College Of Home Science, Hyderabad, from 15th – 17th December 2015. This program was inaugurated by the Chief guest Dr. Rambir Singh, Scientist G, Director of Dept. of Technology Development and Transfer, Department of Science and Technology, Govt. of India, and the Guest of honour was Mrs. Rama Devi President, ALEAP. Special address was given by Dr. K. Dharma Reddy, Dean of Home Science. It was attended by 12 participants nominated by ALEAP who came forward to have hands on training to establish enterprise. A Training manual developed for training entrepreneurs was released on this occasion.



Release of Training manual by Dr. Rambir Singh, Director of DST Mrs Rama Devi, Director ALEAP, and Dean of Home Science



Participants undergoing hands on training Floral Preservation using freeze Dryers in the FCPU, Dept. of RMCS

## Egg Based Food Enterprise

Training programme on "Egg Based Food Enterprise" for the SHG members under 'Non-farm Livelihoods Programme of Society for Elimination of Rural Poverty (SERP) has been organized by the Dept. of Foods and Nutrition from 29th Feb to 5th March 2016. Eleven SHG members selected from the different districts of Telangana State were trained intensively to make 20 varieties of egg recipes on an egg cart, to serve as breakfast, lunch/ dinner and snack items to the public in their respective Mandal or village level. The training was intended to create a viable food enterprise for the rural households living in poverty for subsistence. The budget Rs.81,000/- for the training was borne by SERP. An amount of Rs.33,000/- was deposited as institutional charges to the University.

## Preprimary Teacher Training Certificate course

The Preprimary Teacher Training Programme was organised by the Dept. of Human Development and Family Studies with the duration of 6 weeks i.e. from 27.7.2015 to 5.9.15 with the fee of Rs.4000/- per trainee. Sixty eight trainees successfully completed the programme. An amount of Rs.2,72,000/- was generated as an income to the university. The coordinator of the programme was Mrs. T.S. Nagamani, Associate Professor, Dept. of HDF. A total of 15 trainees got campus placement



TLM prepared by the Trainees



Participation of trainees in Rhymes session

## Workshop on liquid embroidery

A workshop on liquid embroidery was conducted in the Department of Apparel and Textiles, on 01.02.2016, 04.02.2016 & 05.02.2016, from 9.30 to 12.30 p.m. Third year B.Sc (Hons.) Apparel and Textiles B.Sc (Hons.)



Fashion Technology students attended the programme. A subject matter expert from Fevicryl, Pidilite, Ms. Usha Sree, conducted the workshop. A total of 44 students and 6 teaching staff attended the workshop.

## M.Sc. & Ph.D RESEARCH

- **Determination of PCR-RFLP profiles for Indian fish species**  
*N. Pratima, Anurag Chaturvedi, K. Manorama & M. Sreedhar*
- **Effect of bio active rich green coffee extract (gce) on rheological, physico - sensory & nutritional characteristics of bread**  
*Anuja Dev & Anurag*
- **Development of Dehydrated Fruit Crisps for Small and Medium Enterprises and Testing the Marketability,**  
*Swaroop, G and Uma Devi, K.*
- **Department of Home Science Extension & Communication Management Promotional strategies for web portal [www.vigyanasaadhitha.com](http://www.vigyanasaadhitha.com) : an experimental study**  
*Sunitha Sijwali & P Amala Kumari*
- **Development of multimedia module for effective domestic water sanitation – an experimental study in tribal area**  
*A. Lalitha & Mary Swarnalatha*
- **Department of Human Development & Family Studies A Socio-Cultural Study of declining Sex Ratio in Andhra Pradesh**  
*Bilquis and K. Mayuri*
- **Development of PCR based rapid assay method for detection of aflatoxin in food**  
*S. Janaki @ Priya and Anurag Chaturvedi*

conducting of activities under the programme during 2014-15.

Programme broadcast from is AIR Hyderabad Primary channel 738 KHZ. Districts totally covered in Telangana state are Hyderabad, Ranga Reddy, Medak, Nalgonda, Mahaboobnagar & Karimnagar and partially covered are Warangal, Nizamabad, Adilabad, and Khammam. This programme is also being relayed by DTH platform. The DTH programmes are also relayed by AIR local FM relay transmitters situated in many places like Karimnagar, Banswada, Mahaboobnagar, Suryapet, Nandyal, Macherla, Srikakulam and Kakinada Hence this programme has wider coverage and listenership.



Students in audio theatre



Farmers listening to Chenukaburlu

## Digital Undergraduate Academic Performance Repository- UGAPR

With an idea of pooling huge data base to one server and generate reports accurately, an online application is thought of. UG APR (Under Graduate Academic Performance Repository) has been designed and tried for various credit hours. The features of this application are,

1. Credit hour based data base
2. Uploading of data degree, department, course and semester separately
3. Connection of calculations for data base
4. Course-in-charge can download results' excel file, but cannot edit or delete. If any corrections are found essential, the admin. should permit for reload.
5. HOD can access department courses and download the result excel file, but cannot edit or delete.
6. Admin. can view all postings date wise, download results excel file and can delete
7. Advisor can view and download to verify the advisees performance
8. Storage of entire uploaded data in server

This application is in use for uploading of academic performance of the UG students in College of Home Science.

## ON-GOING RESEARCH PROJECTS - TEACHING FACULTY

### Department of Apparel & Textiles

#### Production Plant for Natural Dye Paint

PI Prof. Dr. A. Sharada Devi, and Co PI Dr. R. Geetha Reddy Budget Rs. 5 crores

The Government of Telangana state has taken steps to eradicate pollution especially in Hyderabad. The main water polluting activities were reviewed by the Government under the Chairmanship of the Chief Secretary, Government of Telangana. On the request of the Telangana Pollution Control Board (TPCB), a project was submitted for large scale production of natural dye paint for replacing the synthetic paint, with the budget outlay of Rs. 5 crores (approximately). An amount of Rs. 1 crore was initially released by Telangana Pollution Control Board, Hyderabad to establish a Natural dye paint unit at PJTSAU Rajendranagar campus, Hyderabad to produce 250 tons (approximately) of natural dye paint. The technology of natural dye paint for idol painting was developed under NAIP by Dr. A. Sharada Devi and a patent was filed and published under ICAR domain

### Department of Foods & Nutrition

#### Nutraceuticals properties of underutilized fruits and vegetables in North Eastern Hill Region of India

P I: Dr. Aparna Kuna, Scientist and Co P I: Mrs. T. Supraja, Asst Pro Budget: 59.04 Lakhs

An in-depth study of Nutraceuticals properties especially the bioactive compounds and anti oxidative properties in processed food products of underutilized fruits and vegetables grown in north eastern hilly regions of India would provide insights for sustainable development of functional foods, retaining the nutritive values, to address the challenge of food and nutritional security for the increasing population in the country.

#### Glycemic index profiling of rice (Oryza sativa) varieties for combating lifestyle diseases

P I: Dr. K. Uma Maheswari Co P I: Dr. W Jessie Suneetha Budget: 12.00 lakhs

Under the RKVY project on 'Glycemic Index Profiling of Rice (Oryza Sativa) Varieties for Combating Lifestyle Diseases of Telangana State. This work is under progress. The low GI foods are known to produce less postprandial hyperglycemia and hyperinsulinemia than high GI foods but still the role of low GI foods in the prevention and treatment remains unclear (Miles 2008).

### Department of Extension Education & Communication Management

#### Services for dissemination of quality life technologies, funded under RKVY

P I: Dr Amala Kumari Funding Agency: UNICEF Budget: 13.73 lakhs

The vernacular (Telugu) interactive web portal [www.vigyanasaadhitha.com](http://www.vigyanasaadhitha.com) has been developed under the said project which aimed at to promote quality life by reading and sharing of the information. The project was



started in the year 2012-13 and all the process of collecting information, layout designing, creating web portal, uploading articles ended in 2014 and officially it was inaugurated on 14 May, 2014. New articles were still being posted and it will go on.

#### Department of Resource Management and Consumer Science

#### Floral preservation by freeze drying technology – standardization of treatments and process for value addition and enterprise management

PI: Dr. Mahalakshmi V. Reddy October 2013-March 2016  
**Funding agency:** DST, GOI **Budget Rs. in lakhs:** 57.8  
 Research on 'Floral preservation by freeze drying technology – Standardisation of Treatments and Process for Value Addition and Enterprise Management' was taken up to evolve standardization of preservatives for hydration and pre-treatment and Post-Treatments Suitability of treatments for freeze drying process was tested on 20 varieties of seasonal and exotic flowers. Application of Freeze drying technology for preservation gave way to retain original form, colour and texture of the flower. Developed ideas for freeze dried floral products for marketing. Developed guidelines for training entrepreneurs and trained 12 women entrepreneurs sponsored by ALEAP. Department of Floriculture and Landscaping department of IARI contributed to this research by evolving guidelines for healthy practices for production of seasonal and exotic flowers. Marketable end-products displayed in the India International Trade Fair 2015 and Global R&D Summit New Delhi and Innofest India 2015 held at Hyderabad attracted the attention of scientist, entrepreneurs and consumers at large. This project will be completed by March 2016.

The Standardised Procedure for Floral Preservation by Freeze Drying Technology was developed by Dr. Mahalakshmi V. Reddy under DST project and two patents are filed for publication



#### Department of Human Development and Family Studies

**Dr. K. Mayuri, Emeritus Scientist, Carrying the Project on "Parenting Experience: a life cycle analysis of rural and urban families". The status of the work completed is given below.**

Detailed methodology finalized – there will be both quantitative data on 720 families and qualitative data on 120 families from Hyderabad and rural areas of Medak district, Review of literature is continuing Measurement tools are being developed, Parenting style scale, Self-efficacy scale, Sense of personal control scale have been

developed. Parenting Experience scale is being developed Carrying out all the research projects sanctioned to departments successfully. Millet processing and the incubation centre activities are going on successfully.

#### A study on Quality of Classroom Transactions in Government schools of Telangana state

Dr. M. Sarada Devi, PI and Dr. R. Geetha Reddy, Co PI **Budget : 2 Lakhs**

The study was conducted in four districts (Ranga Reddy, Mahabubnagar, Warangal and Nalgonda) of Telangana state 32 schools were covered for the project. A tool was developed to assess the quality of transactions specific to mathematics subject. It was found that teaching practices of the teachers while teaching mathematics subject were effective and efficient in the classrooms.

#### A Study on effectiveness of Home based education in Inclusive education intervention, Telangana state Sarvashiksha Abhiyan

Dr. M. Sarada Devi, PI and Dr. R. Geetha Reddy, Co PI **Budget : 2 lakhs**

The results revealed that quality of home based education was moderately effective and qualitative through regular visits to the special children. Most of the children were delayed in self help skills like brushing, bathing, eating, grooming, toilet training, communication skills and social skills. After Intervention it was found that most of the special children improved in their skills through home based education intervention programme.



Home Based Children in Different Districts

#### RESEARCH FACULTY - ICAR- ALL INDIA COORDINATED RESEARCH PROJECT-

#### AICRP – FRM: Ergonomic evaluation of sapling transplanter

Dr. A. Mrunalini, Unit Co-ordinator and Scientist

Sapling transplanter is a tool developed by scientists for transplanting saplings in vegetable and tuber crops. Field validation trails were conducted in tomato, brinjal and chilli crops and evaluated the pace of work, physiological work load, Postural load, Repetitive strain index and



Sapling transplanter being used by Farm women in Adapted Villages



Musculoskeletal disorders in comparison with conventional transplanting method. Significant difference was found between the methods indicating the transplanting with sapling transplanter.

Paper entitled 'Performance Evaluation of Head Load Manager an Alternative Means to Carry Loads By Rural Women' by A. Mrunalini published in International Journal of Agriculture, TJPRC (NAAS 3.53), 29th Feb 2016 edition was adjudged as 'BEST Paper. A certificate was presented in this context

#### AICRP: APTX Optimized methodology for natural dye printing:

Dr. A. Padma, Scientist – Apparel and Textiles

Explored weed plant source (Cassia tora seed) for thickening agent (gum) in textile printing (substitute for commercial gums). Extracted gum powder & optimized gum (2.5 & 5%) concentrations for textile printing. Honey like consistency Eclipta prostrata dye was acquired through aqueous method. Printing paste recipe was standardized with 3 % mordants, ferrous sulphate (FeSO<sub>4</sub>) and Stannous Chloride (SnCl<sub>2</sub>). Block and screen printing methods were employed. Steaming and salt treatment were given for good color fastness properties Evaluated fastness properties – wash, rub, sunlight and perspiration



Cassia tora plant and seeds (gum source) Eclipta Prostrata plant (dye source)

#### EXTENSION ACTIVITIES

Dr. Mahalakshmi V. Reddy, Principal Investigator and E. Shirin Hima Bindu- Research Associate of the DST research project on Freeze Drying participated in the Innofest 2015 held at IIIT-Hyderabad on 21st November and in the Federation of Indian Chambers of Commerce and Industry (FICCI), Delhi organized Global R&D Summit during 7-8 December, 2015 at Vigyan Bhawan, New Delhi. Information pertaining to the new technology for floral preservation was shared with scientists, start-up entrepreneurs and bureaucrats of central administration. Products of Freeze dried flowers that were developed with freeze drying technology under Technology Development and Transfer Programme (TDT) of DST was exhibited.



Dr. S. Sucharitha Devi, Assistant Professor, Dept. of FDNT and Dr. W. Jessie Suneetha Assistant Professor, Dept. of FDNT attended training programme on Value addition of Meat for Nutritional Security and employment generation at National Research center on Meat, Chengincherla, Hyderabad from 5-12th October, 2015.



Dr. K. Uma Maheswari, Professor, PG&RC attended a Training programme on "Rights based approach to Food and Nutrition Security" from 25.1.2016 to 5.2.2016 at center for development Innovation, Wageningen University, Netherland.

Dr. Mahalakshmi V. Reddy, Associate Dean, College of Home science delivered a lecture on 19.01.2016. The topic was "Flower Preservation- A viable Technology for Establishing Floral Enterprise", at Centre For Entrepreneurship Development (CED), Association of Lady Entrepreneurs (ALEAP) Hyderabad, for the participants of the training on 'Urban Horticulture - Agribusiness Management' funded by MANAGE.

Dr. P. Sreedevi, Assistant Professor, Dept. of Human Development and Family Studies participated in one day workshop on "Development of Curriculum for Pre-Primary stage of Education on 15.2.16 at SCERT- TS, Basheerbagh, Hyderabad.

#### TRAINING PROGRAM

XXVIII Training of CAFT H.Sc on training programme held on the title "New Dimensions in food quality analysis towards achieving comprehensive food safety" from 3rd to 23rd September 2015 by Dr. Manorama Kanur, Professor, Quality Control Lab, PJTSAU and it was inaugurated by the chief-guest Padmabhushan Dr. V Prakash Ex-Director of CFTRI, Mysore, India. Twenty participants representing 10 universities from different parts of the country took part in this training. CAFT-H.Sc News Letter -XI Issue was released by Dr. Praveen Rao, Special Officer of PJTSAU during valedictory function. On successful completion all the data and technical information was updated in Capacity Building Portal (CBP) ICAR.

