

**Proceedings of the ICT workshop on
“Technology Mediated Training in Agriculture and Allied Organizations”**

Extension Education Institute, Rajendranagar, Hyderabad on 27th March, 2015

About the Workshop

Information Communication Technologies in agricultural extension are emerging with a focus to provide accurate, timely, relevant information and services to the farmers. Knowledge explosion of present scenario demands extension training to equip the extension professionals to meet the challenges in agricultural sector by exploring and using various technologies. Therefore the training institutions started recognizing the importance of integrating modern tools and processes in training strategies. In this direction, EEI, Hyderabad conceived a one day ICT workshop on **“Technology Mediated Training in Agriculture and Allied Organizations”** a suitable strategy for effectively blending the modern technologies with the ongoing training programmes and successfully organized on 27th March, 2015 at EEI Seminar Hall with the following objectives

- To explore ICT options for conducting extension training programmes
- To understand the role of modern ICT tools in support of training strategies
- To come out with a collaborative action plan for conducting extension training programmes, involving various stake holder organization.

Participants:

Ninety Six extension professionals from ICAR institutes, central & state departments, training institutes, private organizations, NGOs etc..

Proceedings of the Workshop:

Dr.V.Praveen Rao, Hon'ble Special Officer, PJTSAU and the Chief Guest of the occasion, while congratulating the novel idea of organizing the workshop, enlightened the participants with his experiences on ICT as an international consultant. His statement on the huge widened gap between extension officers and farmers alarmed the participants to realize the importance of ICT with its immediate use to reach the unreached. Prosperity of any agrarian country like India depends on farmers prosperity, hence upscaling the technologies in the simplest way to conceptualize to a particular situation and reaching them would be the better strategy to enhance the productivity. Examples of some advancement like MOAOC (Massive Open Access

to Online Courses), virtual class rooms, web tools etc. were also quoted by Dr. Praveen Rao. Dr.G.Bhupal Raj, Director of Extension, PJTSAU and the Guest of Honor, emphasized the importance of the workshop while addressing the gathering and expressed the workshop is offering a great platform to many ICT experts to bring value to training with the integration of ICT tools so as to help the farmers to reap the benefits. Explore all possibilities and arrive at a practicable and effective implemental action plans in the rural areas, Dr.Bhupal Raj appealed all the participants. Since PJTSAU is initiating and encouraging ICT activities in the districts, the outcome would benefit the university also, he further expressed his euphoria. Dr.M.Surya Mani, Director, EEI briefed on the relevance of ICT workshop to EEI activities while expressing the need of workshop to generate ideas so as to incorporate into the mandate of EEI. She also stated, EEI is a fore runner in adopting participatory methods for quality training, but the future vision is to blend ICTs with training methodologies. Earlier Dr. K. Madhu Babu, Associate Professor, EEI welcomed the dignitaries and delegates and later Dr.B.Jamuna Rani, Professor, EEI proposed a formal vote of thanks.

Technical sessions

The technical sessions began with a briefing on the tools & methodologies followed by EEI in conducting trainings and M&E activities by Dr.M.Surya Mani. This was succeeded by expert presentations on Technology Mediated Training. Dr. Shaik N. Meera, Sr. Scientist, DRR elaborated on the various tools and software available in trainings and M&E activities such as moodle, poodle, video based learning, interactive tools, e-learning tools, MIS systems, open data kit etc. He requested for ideas that best fit by the end of the workshop presenting some guiding questions for M&E activities.

Another expert presentation was by Dr.C.Kathiresan, Pril. Technical Officer, C-DAC on online training and mobile learning. He elaborated on few other tools for training such as Learning management system (Ex:e-shikshak, moodle, MOOC), content management systems ex: Drupal, Plone, Joomla org, webcasting and webinars, video sharing tool, video conferencing tools, Pod casting, Social Media, SMS providers, expert systems etc. He stressed that focus should be on first level service providers. Though a big basket of ICT tools are available, these will help only in good facilitation but not can never replace conventional tools.

This was followed by a presentation on mobile learning tools by Mr. M. Kumar, c-DAC such as video on demand, live video streaming, mobile-reference, m-ebooks, m-assessment, mobile apps etc.

Break out sessions:

The workshop participants were explained the objective of the workshop i.e., how best to incorporate ICT tools into training and M&E activities. They were provided ten discussion points to have their dialogue to find answers. For those who could not express orally, cards were provided to write their ideas with a request to hand over back as post-its ideas.

For this purpose, the participants were divided into four groups with pre identified moderators to facilitate the discussions as presented below:

Group 1 (Moderator: Dr. Ananda Raja, Asst. Professor (AEX), e-Extension centre, Directorate of Extension Education, TANU, Tamil Nadu & Dr. Sandhya Shenoy, Head, Extension System Management, NAARM, Hyderabad)

Group 2 (Moderator: Dr. TS Anurag Media Lab Professor, New Delhi & Dr. Hermon, Assistant Professor CGARD, NIRD)

Group 3 (Moderator: Dr. P. Krishna Reddy, Professor, IIIT-H, Hyderabad & Dr. G.D. Sateesh Kumar, Senior Scientist, IIOR, Rajendranagar, Hyderabad)

Group 4 (Moderator: Dr. I. Sreenivasa Rao, Professor & Head, EED, PJTSAU & Dr. Madan Mohan, Prints Online.com, Cyber Towers, Hyderabad)

The moderators facilitated discussion on four issues (a) Technology options for training (b) Modalities for blending ICTs with ongoing training strategies (c) Technology options for M&E (d) Modalities for blending ICTs with ongoing M&E strategies. The participants expressed many ideas on the above issues. The ideas expressed on the post cards (post its ideas) were collected by Dr.P.Vijaya Lakshmi, and presented by Dr.C.Padma Veni, Assoc. Professors, EEI.

Plenary session:

The plenary session was conducted under the chairmanship of Dr.V.P.Sharma, Director (IT, Documentation & Publication), MANAGE, Hyderabad. The moderators of the session were Dr.Shaikh N. Meera and Dr.P.Punna Rao. Presentations on the break out session were made by the moderators of the four groups.

Valedictory session:

The valedictory session illuminated the workshop with the graceful presence of Dr.D.Raji Reddy, Director of Research, PJTSAU as the Chief Guest. While speaking on the occasion Dr. Reddy expressed right information to right people at the right time is the need of hour . Training institutes need to focus on three levels Viz., trainers, trainees and farmers and see how best all can benefit from ICTs. Many ICT initiatives got stuck with content without reaching end users. PJTSAU is venturing into use of on line teaching modules (MOOC) and online monitoring of crop conditions across the state. Content development and credibility of scientists are important parameters for which pro activeness, integration and coordination's is most crucial, Dr.Reddy emphasized further. The workshop concluded with vote of thanks by Dr.K.Madhu Babu, Associate Professor, EEI.

Recommendations of the Workshop:

1. Understanding audience and their requirements before selecting any tool. The selected tool must be easily accessible to the end user i.e, famer. Need based specific information must be provided
2. Conventional tools / Brainstorming, Buzz, workshop etc cannot be replaced but they must be integrated with ICT tools like video conferencing, web portals, and toll free no.
3. Basic infra structure facilities must be available to every training institute like Wi-Fi for making the information accessible
4. Content development and validation is of utmost importance in order to develop location specific and information specific modules to a situation. e- Content / e-manuals for the benefit of trainees with more picture based content are to be generated.
5. As a priority, master trainers with knowledge and skills in the use of ICT tools must be developed who in turn can extend this knowledge to farmers
6. Multi stake holder partnership (P-P-P) can play a crucial role in using ICTs. Strong collaboration and networking is the key
7. On line forum of Trainers, Scientists, Trainees and related stake holders is necessary for frequent interaction and communication
8. Strong feedback mechanism through online media must be developed for necessary modifications in the training related activities
9. Continuous capacity building of extension trainers especially on few selected essential tools is must if ICT tools have to be incorporated effectively

10. Mobile services that are accessible even at the grass roots must be effectively utilized as a number of mobile tools have been developed recently such as video on demand, live video streaming, m-ebooks etc
11. Integrated models with simplification of technology and minimum human interaction is must.
12. Internet based solutions with Mobile interface to access information is required.
13. Pre-requisites for using ICT tools are
 - e-Readiness of Trainees (Attitude of Trainees)
 - Short Term Training of Trainers (ToT) on the ICT tools
 - Modification of the tools based on the Need assessment
 - Making the tool localised - Field testing of the tools before implementation
 - Categorisation and Classification of tools based on the target groups and location needs
 - Localised Information System for field level functionaries and farmers
 - Delivery of right Information at right time at right places
 - Development of Specific Modules on Interactive Systems
 - Specific Need Assessment prior to the training through online modes
14. Website of the EEI need to be upgraded for providing overall information about the activities of the institute
15. Infrastructure with Robust server of 10TB capacity to be developed in the training institutions
16. The relevant software shall be provided to the institute, trainers and trainees
17. Establishment of Data Management System is essential for analysis of vast data of the trainees for monitoring and evaluation of the training programmes and also for followup programmes
18. The ICT tools like Webinars, Podcasting, Mobile services, Google Hangouts, Skype etc are to be incorporated in the trainings

Post its Ideas:

- Use of expert systems for the dissemination of reliable information
- Online certificate course like MOOCS need to be introduced in trainings of EEI
- Mobile applications need to be used for training need assessment

- Trainees feedback trained at EEI should be kept in the website of EEI
- Field evaluation could be done through video tabs and mobile apps.
- Training portal is a prerequisite at EEI
- EEI should develop own mobile or web application for training notifications to the trainees.
- Collaboration between research institutes/training institutes and universities must be promoted
- Social media like hike, whatsapp, Face book and E-short solutions must be used
- Information centre at villages must be developed.
- Uploading farmer problems as videos and getting solutions as audio & video files need to be done
- Using podcasts for dissemination of seasonal agricultural activities (Recording of messages from experts) need to be encouraged
- Training of extension functionaries by live video streaming tools is required
- Farmer radio for dissemination of location specific information must be used
- Smart mobiles should be supplied to the farmers on subsidy basis
- ICT savvy farmer representative should be given opportunity to attend the ICT workshop, GDS, Trainings etc.,
- Use of free cost open source technologies like what's app, Face book, You tube, Webinar, etc. must be encouraged.
- Evaluation using google forms SMS and IVRS must be done
- Motivation of trainees for responding to online service is must
- Training of people to conduct ICT activities like video conference is must
- Offline CDs and DVDs should be made available to the farmers at e panchayats
- Need Assessment through use of what's App, Mobile Apps, Web Apps, Toll free module should be done
- Avoiding the fake messages and calls through safety net tools need to be looked into
- Use of mapping tools for collection of content and generation of results is important
- Micro geometric analysis techniques for enabling sensors through mobiles should be done
- Agri education based video games should be used
- Standardised list of online communities/online fora to trainers, M & D professionals to share experiences to be provided
- Weather information in the form of supported images and maps to be provided to the farmers as weather alerts.

- Infrastructure for field level data collection to field level extension functionaries should be arranged
- Training of trainers to use ICT tools is a pre requisite
- Sharing of success stories, case studies in the e-library must be promoted

Summary

Adoption of ICT Enabled Information Systems for training and M& E is a strategic issue. The workshop attempted to better understand the ICT adoption issues involved and the barriers to effective ICT uptake for training in agricultural development and end user reach. The composition of participant proficiencies provided successful strategies to this cause. This enabled the attainment of workshop goal i.e., to provide participants with take home ideas and recommendations. The recommendations focused on ICT priorities for agricultural and rural development training institutions including the research specifically necessary to support them. The results of the workshop deliberations, though ambitious, produced feasible priorities and measures to alleviate ICT adoption constraints and contribute to ensuring sustainable rural viability.

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