



Annual Report

2018-19



Extension Education Institute (NE Region)

Ministry of Agriculture & Farmers Welfare, Govt. of India

Assam Agricultural University, Jorhat





During Lighting of Lamp by Honorable Agricultural Minister, Shri Atul Bora in Regional Workshop on Skill Development, Oct. 5, 2018



During Felicitation of Honorable Vice Chancellor, AAU by Dr. K. P. Wasnik Addl. Commissioner, DAC&FW, GOI, in Regional Workshop on Skill Development, Oct. 5, 2018



Practical Demonstration on Disaster Management and Preparedness drill (Training: Climate Smart Agriculture, Sept. 25-29, 2018)



Regional Workshop organised by College of Horticulture and Forestry, CAU, Arunachal Pradesh from May 14-15, 2018



Practical Work, During of Skill Development Training- "Hatchery (Fishery) Production Worker", Jan 21-Feb 25, 2019



Participation in "International Yoga Day" June 21, 2018

1. ABOUT THE INSTITUTE

Extension Education Institute (EEI) is a regional level institute with the main mandate of providing capacity building to middle level extension functionaries of the departments and organizations of agricultural development, particularly in the discipline of Extension Education. The Department of Agriculture and Cooperation (DAC), Ministry of Agriculture, Govt. of India has established four EEIs for four regions of the country: EEI (Southern Region) at Hyderabad, Andhra Pradesh, EEI (Northern Region) at Nilokheri, Haryana, EEI (Western Region) at Anand, Gujarat, and EEI (NE Region) at Jorhat, Assam. EEI (NE Region) was established in 1987 at Assam Agricultural University (AAU), Jorhat to cater to the need of capacity building of the extension functionaries of the NE states. It functions under the administrative control of Assam Agricultural University (AAU), Jorhat on the basis of annual *Memorandum of Understanding* between DAC, MoA, GOI, New Delhi and AAU, Jorhat. The DAC, MoA, GOI provides the fund for the institute under its non-plan budget head. The operational area of EEI (NE Region) covers nine states which include, Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim, Tripura and West Bengal.

1.1. Vision of the Institute

Achieving excellence as a premier institute in facilitating capacity building of extension functionaries for sustainable development of agriculture in NE states of India.

1.2. Mission of the Institute

- Developing competencies of extension personnel in providing professional extension service to farming community.
- Enhancing effectiveness of extension systems in planning, implementation, monitoring and evaluation of programmes and projects for sustainable agricultural development.
- Developing and improving approaches, methodologies, tools and techniques relating to training and extension education.

"Live as if you were to die tomorrow. Learn as if you were to live forever."

— Mahatma Gandhi

The EEI Management Committee is the apex body of the institute. The Vice Chancellor, Assam Agricultural University is the Chairperson of the committee, and the Director, EEI is the Member Secretary. The Management Committee meeting is generally held once or twice in a year to review the performance of the institute, and to make policy decisions for its effective functioning. The Director of the Institute is responsible for managing its programmes and day-to-day management and administration. The Director works under the administrative control of the Vice Chancellor, AAU.

1.3. Mandate of the Institute

- To develop competencies of middle level extension functionaries of client departments and organizations on application of advanced concepts, approaches, methodologies, tools and technologies of agricultural extension.
- To build capacity of extension personnel for efficient dissemination of frontline agricultural technologies.
- To facilitate extension systems and personnel in planning, implementation, monitoring and evaluation of agricultural development programmes and projects.
- To provide demand driven consultancy services to agriculture and allied departments in planning, implementation, monitoring and evaluation of agricultural development programmes and to address issues relating to extension management.
- To carry out action research in agricultural extension and training in order to bring improvement in approaches, methodologies, tools and techniques of training and extension education.

1.4. The Training Planning Process

Organizing training programmes on need based areas of capacity building of the concerned extension functionaries in the field of 'Extension Education' has been the main

"Change is the end result of all true learning."

— Leo Buscaglia



activity of the institute. However, since 2006-07, the institute started to organize a few of training courses per year on frontline agricultural technologies based on the identified training needs.

The district, sub-division and block level extension officers of the departments of Agriculture, Horticulture, Soil conservation, Animal Husbandry and Veterinary, Fishery and Sericulture are the core target groups of EEI's training courses. Trainers of KVKs and SAMETIs are the secondary group of



intended trainees. The extension functionaries of NGOs are also invited to participate in some of the training courses. The institute sometimes organizes courses for field functionaries in order to meet special training needs of client departments.

EEI (NE Region) identifies the training needs of its client departments every year in order to prepare its annual training calendar. The process starts during the month of January and completes within the month of March.

It comprises of 6 steps:

Step 1: Compilation of training needs obtained from the participants of the training programmes of previous year.

Step 2: Preparation of 'Annual Training Need Assessment Questionnaire' by utilizing information obtained through a number of ways:

a) Priority areas of on-going programmes/projects/schemes of agricultural development in the north-eastern states

b) Area of Training Needs of the participants of the current year's training programmes of the institute.

"For the things we have to learn before we can do them, we learn by doing them."

— Aristotle



A Proforma is used to obtain training needs of each participant on the last day of each training programme of the institute.

c) Task -analysis of intended targeted participants

d) Suggestion of the EEI Management Committee and the Directorate of Extension, Ministry of Agriculture, Govt. of India, New Delhi

Step 3: Obtaining areas of the training needs of the extension functionaries of various cadres of the relevant departments and organizations by mailing the questionnaires to the administrative heads.

Step 4: Finalization of thrust areas and themes of capacity building in the Annual Training Planning Workshop for MANAGE, EEIs and SAMETIs' organized by MANAGE, Hyderabad.

Step 5: Updating of the training needs obtained as stated above in the Regional Workshop which is organized every year.

Step 6: Submission of proposed Annual



Training Calendar to the Directorate of Extension, DAC, MoA, GOI for obtaining approval.

The Annual Training Calendar of EEI (NE Region) includes two types of training programmes:

a) On-campus programmes: The programmes are organized at the institute. These programmes are usually organized for extension functionaries of the client states.

b) Off-campus programmes: The programmes are organized in any of the client states other than Assam. The idea of organizing an **Off-Campus** course is to develop KAS of a group of officers of one or more departments of a particular client state on a need based training area.

"Man's mind, once stretched by a new idea, never regains its original dimensions."

— Oliver Wendell Holmes



In addition to the scheduled courses of annual training calendar, the institute has been conducting additional courses catering to the emerging needs of client departments. The institute is having competent faculty to take up consultancy service on agricultural extension management, planning, monitoring and evaluation of development projects, and to plan and implement capacity-building projects in the client states.



In addition to training programmes, the institute proposes research studies as per direction of competent authority.

2. ACADEMIC PROGRAMMES CONDUCTED DURING 2018-19

The salient aspects of different types of programme conducted by the institute in the current year i.e. 2018- 19 are:

- 2.1. Summary of the Academic Programmes conducted during 2018-19
- 2.2. Summary of On-campus programmes conducted during 2018-19
- 2.3. Summary of Off-campus programmes conducted during 2018-19
- 2.4. State-wise distribution of participants in the training programmes during 2018-19
- 2.5. Department / Discipline-wise distribution of participants in the programmes during 2018-19
- 2.6. Gender distribution of participants during 2018-19
- 2.7. Post Graduate Diploma in Agricultural Extension Management (PGDAEM)
- 2.8. Abstract of Academic Programmes conducted during 2018-19
- 2.9. Abstracts of Research studies
- 2.10. Skill Development Training
- 2.11. Significant events

You don't learn to walk by following rules. You learn by doing, and by falling over.'
—Richard Branson



2.1. Summary of Academic programmes conducted during 2018-19

The institute conducted 29 training/workshops during 2018-19 out of which 8 were **On-Campus** training programmes, 18 **Off-Campus** training programmes 1 **Regional workshop on Skill Development**, and 2 **Skill Development** training programmes. A total of 1018 extension functionaries participated in the programmes. The targeted number of participants was 1080 and thus, the percentage of seat utilization in the programmes of the year was 94.26 per cent. The percentage of seat utilization was 95.83 per cent in 'On-Campus', 102.78 per cent in 'Off-Campus', 105.5 per cent in 'Skill Development Training' and 106.11 per cent in 'Regional Workshop on Skill Development in Agriculture and Allied Sector in NE Region' are given in Fig 1. Apart from that EEI (NER) also conducted two training programme in collaboration with CCS-NIAM, Jaipur.

Moreover, the institute conducted the Contact classes and corrected Answer scripts of PGDAEM programmes for two states, Assam and Nagaland.

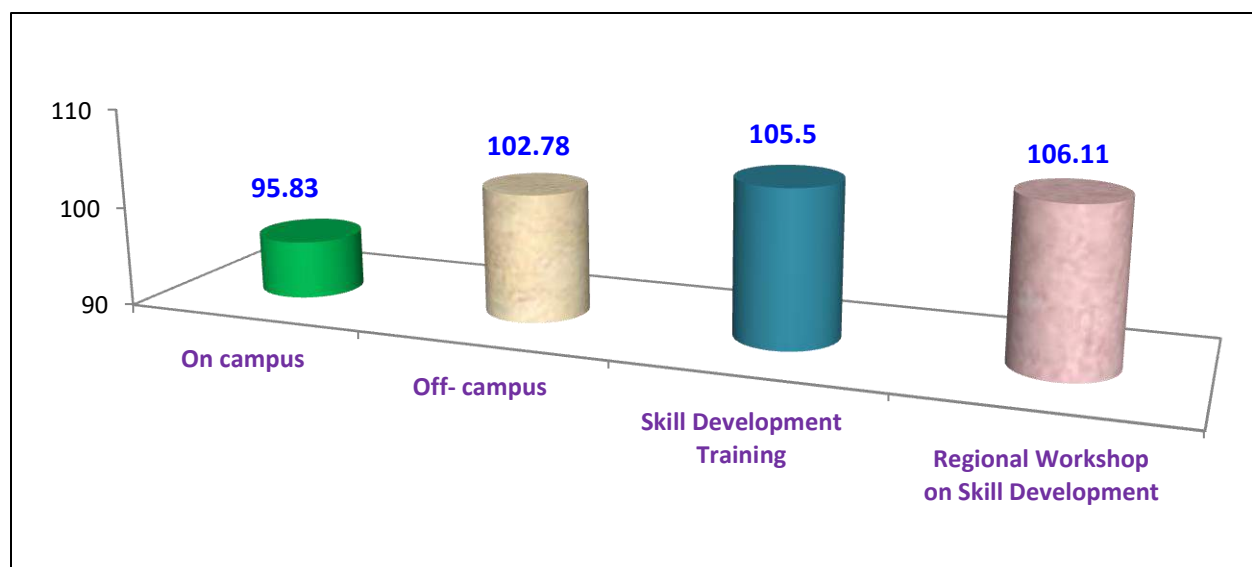


Fig.1: Percentage of Seat Utilization of Participants in Training/Workshop, 2018-19

*'What you think, you become. What you feel, you attract.
What you imagine, you create.'*

—Buddha



Table 2.1: Summary of the Academic Programmes conducted during 2018-19

Type	Nos. of Programme		Participants	
	Target	Achievements	Target	Achievements
On – Campus	8	8	240	230
Off- campus	18	18	540	555
Skill Development Training (ASCI-200 Hrs)	2	2	40	42
Regional Workshop on Skill Development in Agriculture and Allied Sector in NE Region	1	1	180	191
Regional Workshop on Implementation of Central Sector Schemes and Training Planning for EEI(NE Region) and SAMETIs of NE States	1	-	80	-
Total	30	29	1080	1018

2.2. Summary of On-Campus programmes conducted during 2018-19

During 2018-19, the institute conducted 8 numbers of **On-Campus** training programmes in which 230 personnel participated while the targeted number of participants was 240. The details of the On-campus training programmes conducted during 2018-19 are shown in the Table 2.2.

Table 2.2: On-campus training programmes conducted during 2018-19

SN	Course Title	Duration	No of targeted participants	No. of participants attended	Percentage of Seat utilization
1	Management Games and Interactive Training Tools	May 15-19, 2018	30	31	103.33
2	Scientific Management of Integrated Farming Systems in NE States	June 19-23, 2018	30	39	130.00

'Intelligence is the ability to adapt to change.'

—Stephen Hawking

SN	Course Title	Duration	No of targeted participants	No. of participants attended	Percentage of Seat utilization
3	Soft Skills and Training Methods for Trainers	July 24-28, 2018	30	27	90.00
4	Extension approaches for mainstreaming farm women and popularizing gender friendly tools and practices	Aug 21-25, 2018	30	32	106.66
5	Harnessing water resources and irrigation management in NE states (with support to MANAGE, Hyderabad)	Sept 4-8, 2018	30	24	80.00
6	Workshop on Climate Smart Agriculture	Sept 25-29, 2018	30	21	70.00
7	Advances in Farm Mechanization in small holdings	Nov 12-16, 2018	30	30	100.00
8	Use of Social Media and Video Production skills for Agricultural Extension	March 5-9, 2019	30	26	86.66
Total			240	230	95.83

Table 2.2 shows that the overall percentage of seat utilization was 95.83 per cent in **On-campus** courses. In case of 3 numbers of courses, the percentage of seat utilizations were more than 100 percent. In 5 numbers of courses the percentage of seat utilization ranged from 70 to 100 percent .

2.3. Summary of Off-Campus programmes conducted during 2018-19

The institute conducted 18 numbers of Off-campus courses during the year 2018-19 covering 9 states viz. Assam, Tripura, Nagaland, Sikkim, West Bengal, Arunachal Pradesh, Manipur, Mizoram and Meghalaya. As shown in the Table 2.3, the participation of officers in all the 18 nos. of off-campus programmes was encouraging. The total number of participants in the 18 off-campus courses were 555 while targeted number of participants was 540, and thus, the overall percentage of seat-utilization was 102.78 percent.

"He alone is the true teacher who is illuminated by the light of true knowledge"
— Sri Radhakrishna



Table 2.3: Off-campus training programmes conducted during 2018-19

SN	Course Title	Duration (4 days)	States	No. of targeted participants	No. of participants attended	Percentage of seat utilization
1.	Production and Use of Mass Media resources and Presentation Skills for Agricultural Extension	May 22-25, 2018	SAMETI, Manipur	30	29	96.66
2.	Skills for using ICT in Agricultural Extension	June 5-8, 2018	SAMETI, Nagaland	30	30	100.00
3.	Use of Social Media and Video production skills for Agricultural Extension	June 12-15, 2018	SAMETI, Mizoram	30	30	100.00
4.	Promotion of Agri-ecotourism and Export Orientation	June 26-29, 2018	SAMETI, Assam	30	32	106.66
5.	Advances in Organic Farming and INM	July 10-13, 2018	T-SAMETI, Tripura	30	31	103.33
6.	Workshop on Agricultural Marketing and Micro Finance	Aug 7-10, 2018	SAMETI, Arunachal Pradesh	30	32	106.67
7.	Extension Skills for Implementation of Major Agricultural Development Schemes	Aug 28-31, 2018	SAMETI, Sikkim	30	30	100
8.	Production and Use of Mass Media resources and Presentation Skills for Agricultural Extension	Sept 18-21, 2018	MAMETI, Meghalaya	30	30	100
9.	Community organization and Leadership skills for Extension Personnel	Sept 18-21, 2018	SAMETI, Tripura	30	40	133.33
10.	Promotion of Organic Farming in Nagaland	Sept 25-28, 2018	SAMETI, Nagaland	30	30	100
11.	Disaster mitigation: Planning and management practices	Oct 2-5, 2018	SAMETI, Arunachal Pradesh	30	28	93.33

"A teacher is one who makes himself progressively unnecessary."
— Thomas Carruthers



SN	Course Title	Duration (4 days)	States	No. of targeted participants	No. of participants attended	Percentage of seat utilization
12.	Disaster mitigation: Planning and management practices	Nov 20-23, 2018	SAMETI, Sikkim	30	30	100
13.	Skills for using ICT in Agricultural Extension	Dec 4-7, 2018	SAMETI, West Bengal	30	30	100.00
14.	Training Methods and Management	Jan 29-Feb 1, 2019	SAMETI, Mizoram	30	30	100
15.	Promotion of Organic Farming in Manipur	Feb 12-15 2019	SAMETI, Manipur	30	30	100
16.	Community organization for Livestock and Dairy Development	Feb 20-23 2019	SAMETI, Assam	30	33	110.00
17.	Management Games and Interactive Training Tools	Mar 11-14, 2019	SAMETI, West Bengal	30	30	100
18.	Farm mechanization in small holdings in Hilly areas	Mar 13-16, 2019	MAMETI, Meghalaya	30	30	100
Total				540	555	102.78

2.4. State-wise distribution of participants in training programmes and workshops during 2018-19

The distribution of participants across the states is shown in Fig.2. The state-wise distribution of data is presented at Appendix I (Table 2). From the figure, it could be seen that Assam is having the highest numbers (321) of participants followed by Manipur (114), Tripura (97), Mizoram (94), Nagaland (83), Arunachal Pradesh (83), Meghalaya (81), Sikkim (69), and West Bengal (60).

“Learning is a treasure that will follow its owner everywhere.”

— Chinese Proverb



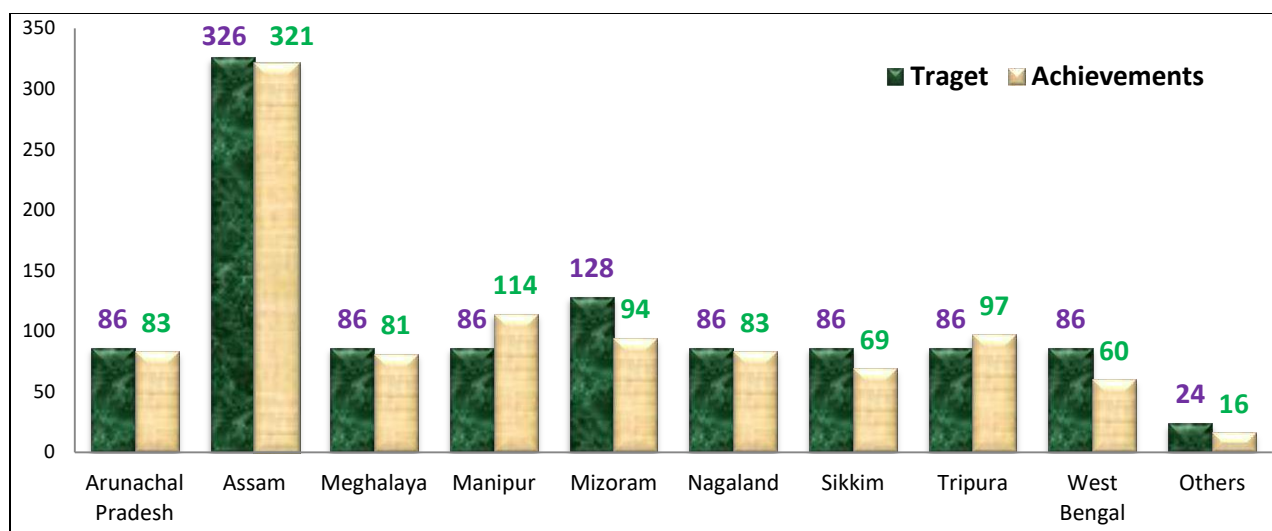


Fig.2: State-wise distribution of participants in training programmes and workshops during 2018-19

2.5. Discipline wise distribution of participants in the Training programmes during 2018 -19

The distribution of participants across discipline is shown in (Fig.3). It can be seen from the fig. that the majority (814) of the participants was from Agriculture while 39 from Fishery Department, 25 were from Horticulture department, 22 were from Animal Husbandry and Veterinary department. There were 118 participants from NGOs and other sector participated in the training programmes. The details of department/discipline wise distribution of participants, is given at Appendix II (Table 3).

"An investment in knowledge pays the best interest."

— Benjamin Franklin



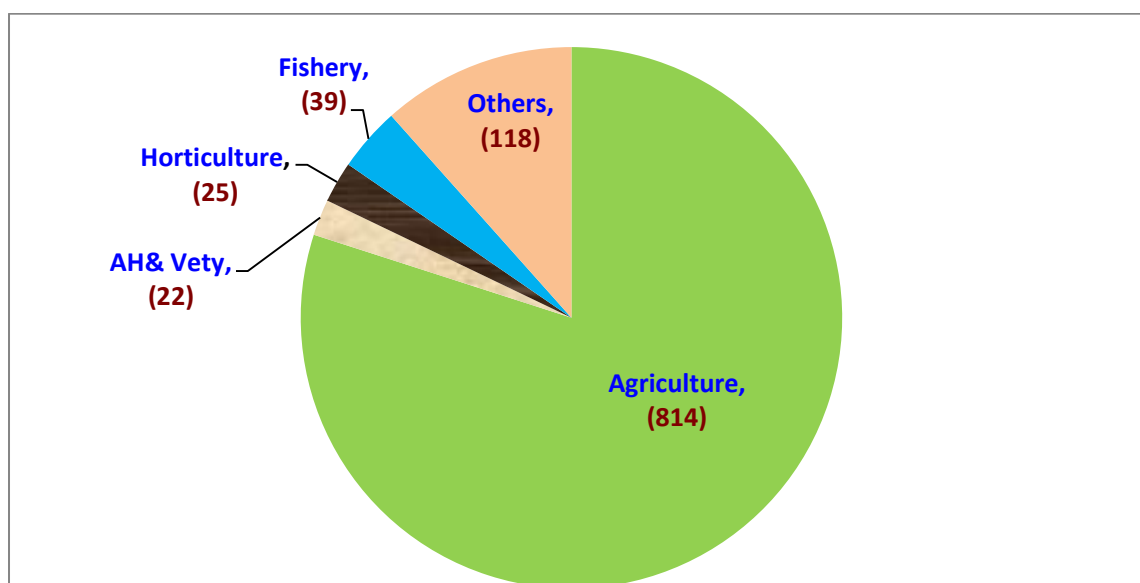


Fig. 3: Department/Discipline wise distribution of participants in programmes during 2018 -19

2.6. Gender distribution of participants during 2018-19

The gender distribution of participants during 2018-19 is given in Fig.4 and the detailed distribution data is presented at Table: 4 (Appendix III). Efforts were being made to enhance women participation. During 2018-19, women participation was 378 (37%) as against male participation which was 640 (63%).

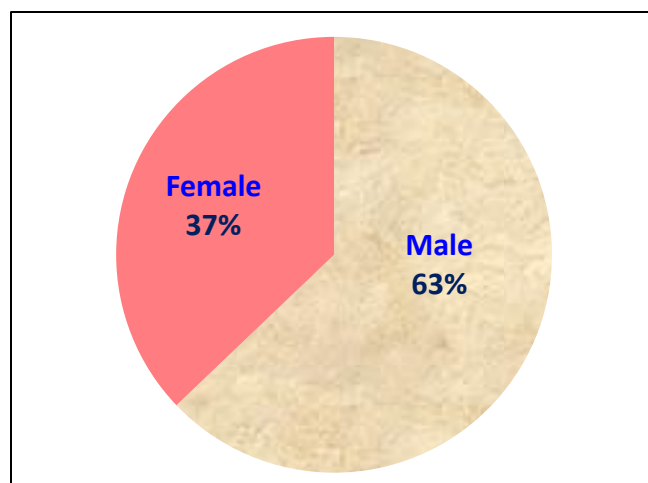


Fig.4. Gender distribution of participants during 2018-19

"The whole purpose of education is to turn mirrors into windows."

—Sydney J. Harris



2.7. Post Graduate Diploma in Agricultural Extension Management (PGDAEM)

EEI (NE Region) has been implementing Post Graduate Diploma in Agricultural Extension Management (PGDAEM) as study centre for the state of Assam since 2010-11 and for the state of Nagaland since 2011-12 in collaboration with SAMETI, Assam and SAMETI, Nagaland. The table below, presents brief statement of this programme of distant mode of learning on Extension Education implemented by MANAGE, Hyderabad since 2007-08. From the year 2014 to 2018, a total of 168 candidates successfully completed the PGDAEM Programme from the states of Assam and Nagaland. The status of PGDAEM in the states of Assam and Nagaland are given below.

Table.2.7: Status of PGDAEM in the states of Assam and Nagaland

State	Year		No. of candidates enrolled	No. of candidates successfully completed
Assam	2014-15	1 st semester	08	08
		2 nd semester	08	08
	2015-16	1 st semester	13	13
		2 nd semester	13	13
	2016-17	1 st semester	14	13
		2 nd semester	14	13
	2017-18	1 st semester	10	01
		2 nd semester	10	01
Nagaland	2014-15	1 st semester	21	17
		2 nd semester	21	17
	2015-16	1 st semester	7	7
		2 nd semester	7	7
	2016-17	1 st semester	8	8
		2 nd semester	8	8
	2017-18	1 st semester	19	17
		2 nd semester	19	17

'Knowledge is a weapon. I intend to be formidably armed'

—Terry Goodkind



2.8. Abstract of Training Programme 2018-19

1. Management Games and Interactive Training Tools

Management is an art or science is debatable. But one thing which is sure is that importance of management functions, learning basic management concepts and its application in day to day activity of corporate world has achieved tremendous acceptance in recent years. Over

last couple of years, pedagogy in the management education is changing very fast, and one of the latest additions in this field is the management games. Based on the basic theoretical frameworks of management domains, several games are designed, which are focused at the basic and fundamental principles of management. Generally these



games are played both individually and in teams. Major objective of these games is to enhance the eye for details, to improve analyzing skills, to enable quick decision making, to make students cooperative and team players, and to give them long lasting impressions of the subjects, which they have learnt inside classrooms. A 5-day training programme on “Management Games and Interactive Training Tools” was organized during **May 15-19, 2018** by EEI (NE Region) for the Extension Functionaries of different states of North East Region. The participants were discuss and play games on Time management, Ego management, Conflict management, Team building, Communication, Leadership, Balancing work – life, Unity etc. A total of thirty one participants from Dept. of Agriculture, and ATMA participated in the programme from different states of North East. A field visit was conducted to the Chinamara Tea Estate, in Chinamara area of Jorhat District.

*“Science without religion is lame, religion without science is blind”
-Albert Einstein*



A discussion was held on different activities carried out by the women Self Help Group (SHG) member of the tea estate. Participants were communicated with the labour about their problems of day to day life. All the participants and tea garden labour expressed greater satisfaction over the programme.

2. Production and Use of Mass Media resources and Presentation Skills for Agricultural Extension

Extension work involves great deal of social interaction and communication within a team and also with the clientele. In order to provide efficient services, relationships need to be developed within the team and also with the clients. Extension functionaries possessing a proper set of communication skills backed by certain attitude and skills can go a long way in effectively reaching out the clients. A training programme on **“Production and Use of Mass Media resources and Presentation Skills for Agricultural**



Extension” was organized by EEI (NE Region), Jorhat during **May 22-25, 2018**, at Manipur, with the collaboration of SAMETI, Manipur. Total twenty nine (29) participants participated in the programme.

3. Skills for using ICT in Agricultural Extension

“Information is power” it is said. The access to information and improved communication - crucial requirement for sustainable agril. dev. Agriculture extension- recognized as essential mechanism for delivering information and advice as input into modern farming. Extension - becoming more diversified, more knowledge intensive, more technology intensive & more demand driven.

‘Education is the kindling of a flame, not the filling of a vessel’

—Socrates



Use of IT- can help extension workers be more effective to meet farmers' information needs including marketing of their produce. Various websites have been providing information – regarding technical, services, supplies, weather, markets, products, govt. progs/policies as well as for motivation – for change, scientific outlook,



adoption as well as education & training support for effective behavioural change (KSA). Moreover, ICT in Extension can very well help in coordination- GOs-NGOs-VOs-People as well as help in getting feedback on a regular & continuous basis. A training programme on **“Skills for using ICT in Agricultural Extension”** was organised by EEI (NE Region), Jorhat during **June 05-08, 2018**, at Nagaland, with the collaboration of SAMETI, Nagaland. Different session was conducted on topics like: Highlight the scope and significance of ICT enabled Agricultural Extension, Information needs of farmers and role of ICTs in effective TOT, Constraints & challenges of ICT in agriculture, Innovative ICT initiatives by the government, private and corporate sectors in agriculture and allied sectors, ICT initiatives for information dissemination in market led extension, Community radio, Tele and video conferencing-role in TOT, Role of farmers call centres in information dissemination, Information support system and services through affordable communication networks, Identification and analysis of cases of ICT initiatives by the Government, private and corporate sectors in Agriculture and allied sectors, Mobile apps for farmers.

“All learning has an emotional base.”

—Plato



4. Use of Social Media and Video Production Skills for Agricultural Extension

Social networking media has now become a highlight in the realm of agricultural development due to its impact on the users. Over the years, the use of media, websites and applications like face book, Telegram, Twitter, Whatsapp etc. has multiplied into more than a billion users. Keeping this in view, a training programme on “**Use of Social Media and Video Production Skills for Agricultural Extension**” was organized by EEI (NE Region), Jorhat during **June 12-15, 2018**, at Mizoram, with the collaboration of SAMETI, Mizoram. Different session was conducted on topics like: ICT Tools and



applications in Agricultural Extension, Social Media for use in Extension, Techniques of video production, Important Websites in Agriculture and Extension, M-Extension and its applications, Multimedia Production Tools, Mobile Apps in agriculture / extension offered by Govt. of India, e-NAM (e-National Agricultural Market), Kisan Call Centre and Flagship ICT initiatives of GOI, etc. Total 27 participants participated in the programme.

5. Scientific Management of Integrated Farming System in NE states

Integrated Farming system is a set of activities that farmers perform in their farms under their resources and circumstances to maximize the productivity and net farm income on a sustainable basis. The farming system takes into account the components of soil, water, crops, livestock, labour, capital, energy and other resources, with the farm family at the centre managing agriculture and related activities. The scientific management of Major Farming systems is concerned

“The end product of education should be a free creative man, who can battle against historical circumstances and adversities of nature.” -Dr. S. Radhakrishnan



with the development of management strategies and skills among farmers with improved decision-making in the use of resources and linking farmers to markets. A training programme was organised on **“Scientific Management of Integrated Farming System in NE states”** at EEI (NE Region), Jorhat during **June 19-23, 2017**. Total 39 extension functionaries from Dept. of Agriculture, ATMA and NGOs workers from whole North East region participated in the programme. The topics discussed



in the training programme were: Integrated Farming Systems: Reviewing advantages, recent advances in NE states, Pisciculture-based IFS - an agro-based enterprise, Recent advances in Fishery-based IFS, Protected Cultivation for enhancing profitability in farming, Sericulture as an agro-based enterprise, Commercial cultivation of selected Horticultural crops in IFS for NE Region, IFS in Hill states, Strategies for popularizing IFS in NE states etc. A field visit was conducted to the Jatakia village, in Fesual area of Jorhat District. Resource Person Dr Dhruba Hazarika, from AHD department of AAU along with the participants (Fishery Officers) from Tripura district has conducted Participatory Planning /Method Demonstration on Livestock-based IFS and Fishery based IFS.

6. Promotion of Agri-ecotourism and Export Orientation

A training programme on **“Promotion of Agri-ecotourism and Export Orientation”** was organized by EEI (NE Region), Jorhat during **June 26-29, 2018**, at Assam with the collaboration of SAMETI, Tripura. The topics discussed during different session of the training programme were: Agri- Ecotourism –as an emerging agro-based Entrepreneurship opportunity, Issues, constraints and measure relating to Agri- Ecotourism with reference to NE states, Exploring components,

‘Curiosity is the wick in the candle of learning’

-William Arthur Ward



models, provisions in Agri- ecotourism enterprise, Agri-ecotourism potential in Assam, Agri-Export: Problems & Prospects, Export potential & prospects of Agri commodities in NE States including Assam, Role of APEDA in promoting exports of Agri commodities in NE States including Assam, Role & interventions of Extension Functionaries in export promotion, Policy recommendations for export promotion of Agricultural commodities in Assam. Total thirty two (32) participants participated in the programme.



7. Advances in Organic Farming and INM

A training programme on “**Advances in Organic Farming and INM**” was organised by EEI (NE Region), Jorhat during **July 10-13, 2018**, at Tripura with the collaboration of SAMETI, Tripura. The topic discussed during different session of the training programme were: An overview on Paramparagat Krishi Vikas Yojana (PKVY), Prospects of Organic Agriculture in NE states with special reference to Mizoram, Raising Organic Nursery and Organic Seed



‘Learning is synthesizing seemingly divergent ideas and data.’

—Terry Heick



Production, Production and application of bio fertilizers as a component of organic farming , An overview on composting- its methods of preparation and application, Participatory Guarantee System in Organic Farming (PGS), Importance and cultivation technique of Azolla, Integrated Nutrient Management (INM), Ways and means of organic standard in organic agriculture etc. Total thirty one (31) participants participated in the programme.

8. Promotion of Organic Farming in Nagaland

From **July 17-20, 2018**, a training programme on “**Promotion of Organic Farming in Nagaland**” was organised by EEI (NE Region), Jorhat at Nagaland with the collaboration of SAMETI, Nagaland. The topic

discussed during different session of the training programme were: An overview on Paramparagat Krishi Vikas Yojana (PKVY), Prospects of Organic Agriculture in NE states with special reference to Mizoram, Raising Organic Nursery and Organic Seed Production, Production and application of bio fertilizers as a



component of organic farming, An overview on composting- its methods of preparation and application, Participatory Guarantee System in Organic Farming (PGS), Importance and cultivation technique of Azolla, Integrated Nutrient Management (INM), Ways and means of organic standard in organic agriculture etc. Total thirty (30) participants participated in the programme. Dr. R. Baruah, Professor, Deptt of Soil Science, AAU, Jorhat had acted as an expert and one of the resource persons during the programme and highlighted the procedure while demonstrating the azolla cultivation practice.

“Always walk through life as if you have something new to learn and you will.”

— Vernon Howard



9. Soft Skills and Training Methods for Trainer

Soft skills are the cluster of personality traits, social graces, communication skills, personal habits, friendliness and optimism that mark people to varying degrees. Soft skills enable individuals to effectively utilize hard skills (technical competence) in doing a job effectively. Soft



skills are an important part of the success of an individual affecting an organization. Organizations become effective as soft skills enable the staff to deal with clients / customers better. Hence, Soft skills are increasingly treated by managers / employers as essential requirement of personnel. During **July 24-28, 2018** a training programme on

“Soft Skills and Training Methods for Trainer” was organised for the Extension Functionaries of all North Eastern states. The topic of discussion during those five days were: Orientation on Soft Skills, Practical tips on Professional Communication, Inter Personal Effectiveness, Key Skills for Team Work, Social Value Orientation, Ego management and Finding our Ego grams, Self Awareness and Self Regulation, Interpersonal Skills for Extension, Leadership skills and Team Spirit , Overview of the Training Process and selected Training Methods, Important guidelines for Objective formulation, Lesson Planning for Training Programmes and practices, Method Demonstration – its preparation and steps, Training Monitoring & Evaluation and Developing an Evaluation format etc. A total of twenty eight participants from Dept. of Agriculture, ATMA and KVKs participated in the programme.

“The beautiful thing about learning is that nobody can take it away from you.”

— B.B. King



10. Workshop on Agricultural Marketing and Micro Finance

The focus of Extension System from a production-led to market-led has brought about the need of sensitization about the market and its aspects for farmers, extension functionaries and policy makers alike. An important concept in Agricultural Marketing Extension is the market chain management which is an integrated system that requires emphasis in order to boost the agricultural economy of the country. A thorough knowledge about the market chain management is the need of the



hour to meet the requirements of all sectors of the economy. This helps the extension functionaries to facilitate the farmers in exploring the different market potentials of their crops and livestock. With this back drop, a **Workshop on “Agricultural Marketing and Micro Finance”** was organised by EEI (NE Region), Jorhat at Arunachal Pradesh with the collaboration of SAMETI, Arunachal Pradesh. Thirty two Extension Functionaries from different districts were participated in the programme.

11. Extension Approaches for Mainstreaming Farm Women and Popularizing Gender Friendly Tools and Practices

It is gender that differentiates the roles, responsibilities, resources, constraints and opportunities of women and men in agriculture for which precise gender information is the need of the day, more particularly overcome the gender obstacles, enduring efforts to mainstream gender in agriculture, establishing gender friendly small scale agro based enterprises.

“Science is a beautiful gift to humanity; we should not distort it.”

-A. P. J. Abdul Kalam



During **Aug 07-10, 2018** a training was organized at EEI (NE Region), Jorhat on “**Extension Approaches for Mainstreaming Farm Women and Popularizing Gender Friendly Tools and Practices**” for the extension functionaries of the entire agricultural and allied sector department.

The participants were discussed with the topics like: Gender Mainstreaming and Women Empowerment: Concept and Issues, Pisciculture-based Integrated Farming as a Gender Friendly Agro-Based Enterprises, Gender Friendly Small Scale Agro-Based Enterprises for NE Region, Gender Friendly Tools and Implements in NE States, Govt. schemes and programmes for women, Mobile Apps in Extension developed by MoA &



FW, GOI, Gender budgeting and Analysis, Tips on writing Success Stories, Agriculture as a Business: *Role of Women*, Bee-Keeping: As a Gender Friendly Enterprise, Bio-fertilizer Production as a Gender Friendly Agro based Enterprise, Skills in Floriculture technologies for gender friendly enterprises etc. Total thirty two extension officers from all over North Eastern region participated in the programme.

“Creativity is seeing the same thing but thinking differently.”

-A. P. J. Abdul Kalam



12. Extension skills for implementation of major Agricultural Development Scheme.

The off campus programme was held in collaboration with SAMETI, Sikkim from **Aug. 28-31, 2018** at Sikkim. The course emphasized on the provisions made under the central sector scheme of STRY, Soil health card scheme, PKVY, PMFBY, RGM and PM-SAGY, DDUGJY, and DDUGKY and few other Central Sector Schemes of DAC, Govt. of India. Total thirty (30) participants attended the training programme.



13. Harnessing Water Resources and Irrigation Management in NE States

Water scarcity has been a major problem for the farmers in Hilly Areas. NE states are mostly covered with hills and natural resources. Today, a number of converging trends, including



land degradation, population growth and climate change, exacerbate the challenges among the people of North East. These trends all add to the increasing uncertainties facing the rural poor who depend largely on a fragile natural resource base. Sustainable increases in future food supplies must come from

increased productivity i.e. producing 'more crops per drop' where water is the key ingredient.

"Success is a science; if you have the conditions, you get the result."

-Oscar Wilde



Keeping in view the increasing population pressure and degrading resources, a proper and effective strategy for managing and harnessing the water resources in a more sustainable, manner is needed. Hence, the course has been organised on “**Harnessing Water Resources and Irrigation Management in NE States**” at EEI (NE Region), Jorhat during **Sept 4-8, 2018**. The sessions of the programme mainly focused on: Importance of Harnessing Water Resources and Irrigation Management in NE States, Importance of Water Resource and Planning and Management, Prospects and constraints in water management for Agricultural context in NE states, Recent Advances in Water Management, Promotion of Sustainable Institute for Water Resource, Pradhan Mantri Krishi Sinchayee Yojana (PMKSY) – GOI guidelines, Methods / techniques of water management and their feasibility in NE States, High Efficiency Irrigation Systems applicable for hills region including Drip and rain irrigation,



Community/ Group Approaches in Water Management, Management games on Team work and Leadership, Rain water Harvesting System: Methods/techniques and Tools and its applicability for Irrigation, Applicability of Rain water harvesting techniques in different Agro-ecological situations in different NE states, Issues and extension strategies to boost productivity through improved water management in NE states, Panel Discussion on Issues and Extension strategies to boost productivity through improved water management in NE states, Applications of Mobile Apps in Agriculture etc. Total twenty four extension officers from all over North Eastern region participated in the programme.

“Anyone who has never made a mistake has never tried anything new.”

-Albert Einstein



14. Production and Use of Mass Media resources and Presentation Skills for Agricultural Extension

Extension work involves great deal of social interaction and communication within a team and also with the clientele. In order to provide efficient services, relationships need to be developed within the team and also with the clients. Extension functionaries possessing a proper set of communication skills backed by certain attitude and skills can go a long way in effectively reaching out the clients. A training programme on **“Production and Use of Mass Media resources and Presentation Skills for Agricultural Extension”** was organized by EEI (NE Region), Jorhat during **Sept. 18-21, 2018**, at Meghalaya, with the collaboration of MAMETI, Meghalaya. Different session was conducted on topics like: Thirty (30) Extension Functionaries from Dept. of Agriculture, ATMA and KVKs were participated in the programme.

15. Community organization and Leadership skills for Extension Personnel

With increased and enriched role, the extension personnel have to perform multiple roles in meeting the objectives of doubling farmer's income. Even with all the market knowledge and



efficacy in performing their role, the extension personnel may face the crisis due to rapid and unexpected changes in the market. Hence, the paradigm shift from production-led extension to market-led extension has brought about the needs for orienting the extension personnel to develop and update the knowledge and

skills related with market information. In order to meet the fluctuating market demands, formation of farmer groups and community organization could serve as an effective tool for empowering the farmers to increase their income. Possessing a set of skills is vital for managers and leaders.

“Failure will never overtake me if my determination to succeed is strong enough”
- Abdul Kalam



It is essential to hone the skills from time to time as management is a dynamic subject. Keeping this in view, a training programme was organised on **“Community organization and Leadership skills for Extension Personnel”** by EEI (NE Region), Jorhat during **Sept. 18-21, 2018**, at Tripura with the collaboration of T-SAMETI, Tripura. The sessions of the programme mainly focused on: Community Organization: Reviewing the Process & Principles to be followed, Few Tools and Methods to Mobilize and Organize the Community, Prospects & Problems in Community Organization in North East, Identify at least 5 factors affecting teamwork and leadership, Leadership style, An overview of managerial skills, Concept and illustrations of interpersonal skills, Types and styles of leadership competencies, Team building skills and process, Change management in extension organizations, Time management skills, Stress management practices, A Systematic approach to task accomplishment. Total forty (40) Extension Functionaries from Dept. of Agriculture, ATMA and KVKs were participated in the programme.

16. Workshop on Climate Smart Agriculture

Widespread changes of climatic factors like rainfall and temperature threaten agriculture production and increase the vulnerability of people mostly, depending on agriculture. Climate Smart Agriculture (CSA) is an approach for transforming and reorienting agriculture systems under the new realities of climate change. CSA brings together practices, policies and institutions that are not necessarily new but are used in the context of climatic changes, which are unfamiliar to farmers, herders and fishers. What is also new is the fact that the multiple challenges faced by agriculture and food systems are addressed simultaneously and holistically, which helps avoid



“A pen is to me as beak is to a hen”

-J.R.R. Tolkien



counterproductive policies, legislation or financing. Therefore to aware about “**Climate Smart Agriculture**” a training programme was organized during **Sept. 25-29, 2018** at EEI (NE Region) for the extension functionaries of whole North Eastern region. The sessions of the programme mainly focused on: Need and Relevance of CSA in present context in NE states, Building climate resilient Agriculture for rice based cropping system of Assam, Contingency crop planning for management of weather aberrations, Issues on agriculture and allied sectors relating to climate change and measures to be adopted, Challenge of mitigating impact of climate change on rice productivity: A biotechnological perspective, Climate variability in NE India, Climate smart practices in agriculture as recommended by CRIDA & FAO, Types of Disaster: An overview, Community based Disaster Management, Use of ICT tools for Disaster Management, A Systematic Approach (ASA) for Disaster Management, Pest and Disease Management in Post Flood Situation etc. Exposure visit was done to the Agro-met observatory centre of AAU, Jorhat. Twenty six extension functionaries from Dept. of Agriculture, ATMA and KVKs participated in the programme. Total 21 extension functionaries from Dept. of Agriculture, ATMA and KVKs from whole North East region participated in the programme.

17. Disaster mitigation: Planning and management practices

The data from the United Nations International Strategy for Disaster Reduction (UNISDR) shows a dramatic increase in the occurrence of natural disasters, particularly of hydro meteorological events, during the last century. The steady worsening of climatic conditions such as global warming and the increasing frequency of extreme weather events, including droughts and floods, have a negative impact on crop yields and



“Even the smallest person can change the course of future”

-J.R.R. Tolkien



food production and sudden disaster in many places. Natural Disasters causing damage to human life, property, infrastructure and economy has emerged as a global challenge. Requisite safety measures have to be provided for natural hazards. Prevention is better than cure. Once disaster occurred, it is very difficult to handle and control it. Hence proper planning shall always handle and mitigate the various kinds of disasters effectively, for which open, transparent and efficient systems have to be followed. There is a need for systematic identification, preparation, prediction, assessment, evaluation of disaster events and incorporation of mitigate measures. Disaster management is a sequential and continuous process planning. Keeping in view the increasing changes in climatic conditions and importance of mitigating disaster management techniques a training programme was organised on **“Disaster mitigation: Planning and management practices”** by EEI (NE Region), Jorhat during **Oct. 09-12, 2018**, at Arunachal Pradesh with the collaboration of SAMETI, Arunachal Pradesh. The sessions of the programme mainly focused on: Climate change in the present context and its variability on agriculture, Orientation on Disaster preparedness and planning, Techniques for disaster mitigation, Management tools for flood, drought, pests and disease management, animal disasters, Disaster mitigation strategies for NE Region, Case studies. Twenty eight (28) Extension Functionaries from Dept. of Agriculture, ATMA and KVKs were participated in the programme.

18. Community Organization for Livestock and dairy Development

With increased and enriched role, the extension personnel have to perform multiple roles in meeting the objectives of doubling farmer's income. Even with all the market knowledge and efficacy in performing their role, the extension personnel may face the crisis due to rapid and unexpected changes in the market.



“A leader is a dealer in hope.”

- Napoleon Bonaparte



Hence, the paradigm shift from production-led extension to market-led extension has brought about the needs for orienting the extension personnel to develop and update the knowledge and skills related with market information. Keeping this in view a training programme on **“Community Organization for Livestock and dairy Development”** during **Feb 20-23, 2019** at Assam, in collaboration with SAMETI, Assam. Total thirty two participants from Dept. of Agriculture, ATMA and KVKs participated in the programme.

19. Farm Mechanization in small holdings in Hilly areas

Mechanization is a crucial input for agricultural crop production and one that historically has been neglected in the context of developing countries. Factors that reduce the availability of farm power compromise the ability to cultivate sufficient land and have long been recognized as



a source of poverty. Sustainable agricultural mechanization can also contribute significantly to the development of value chains and food systems as it has the potential to render postharvest, processing and marketing activities and functions more efficient, effective and environmentally friendly. Increasing levels of mechanization does not necessarily mean big

investments in tractors and other machinery. Farmers need to choose the most appropriate power source for any operation depending on the work to be done and on who is performing it. A training on **“Farm Mechanization in small holdings in Hilly areas”** during **March 12-15, 2019** at Meghalaya in collaboration with MAMETI, Meghalaya. Total thirty two participants from Dept. of Agriculture, ATMA and KVKs participated in the programme.

“Knowing is not enough; We must apply. Willing is not enough; We must do.”

- Bruce



20. Advances in Farm Mechanization in Small Holdings

Mechanization is a crucial input for agricultural crop production and one that historically has been neglected in the context of developing countries. Factors that reduce the availability of farm power compromise the ability to cultivate sufficient land and have long been recognized as a source of poverty. Sustainable agricultural mechanization can also contribute significantly to the development of value chains and food systems as it has the potential to render postharvest, processing and marketing activities and functions more efficient, effective and environmentally friendly. Increasing levels of mechanization



does not necessarily mean big investments in tractors and other machinery. Farmers need to choose the most appropriate power source for any operation depending on the work to be done and on who is performing it. A training on **“Advances in Farm Mechanization in Small Holdings”** was organized during **Nov. 12-16, 2018** at EEI (NE Region) for the extension functionaries of whole North Eastern region. The sessions of the programme mainly focused on: Farm Machinery- Its classification and Over view on farm machinery and implements and applicability with ref to small holdings and hilly areas, Farm mechanization- present status in NE India, problems and prospects, Mechanization of Green house in agriculture, Recent advances in Farm Mechanization and their applicability in NE states, Orientation to various farm implements/tools for hilly region and tips on management, Mechanization on Water management in agriculture, Mechanization in Post Harvest Management, Farm Mechanization in selected crops, Farm Mechanization for profitable agriculture in NE States, Status of Agri startups in India, Incubation on Agriculture and Allied Sectors, Strategies for popularization of Farm Mechanization in NE states of India,

*“A goal is not always meant to be reached;
it often serves simply as something to aim at.”* - Bruce lee



Schemes, Projects and Programmes on Mechanization in India with special reference to N.E States, Drudgery reduction technologies for farm women etc. A total of thirty participants from Dept. of Agriculture, ATMA and KVKs participated in the programme.

21. Disaster mitigation: Planning and management practices

The data from the United Nations International Strategy for Disaster Reduction (UNISDR) shows a dramatic increase in the occurrence of natural disasters, particularly of hydro meteorological events, during the last century. The steady worsening of climatic conditions such as global warming and the increasing frequency of extreme weather events, including droughts and floods, have a negative impact on crop yields and food production and sudden disaster in many places. Natural Disasters causing damage to human life, property, infrastructure and economy has emerged as a global challenge. Requisite safety measures have to be provided for natural hazards. Prevention is better than cure. Once disaster occurred, it is very difficult to handle and control it. Hence proper planning shall always handle and mitigate the various kinds of disasters effectively, for which open, transparent and efficient systems have to be followed. There is a need for systematic identification, preparation, prediction, assessment, evaluation of disaster events and incorporation of mitigate measures. Disaster management is a sequential and continuous process planning. Keeping in view the increasing changes in climatic conditions and importance of mitigating disaster management techniques a training programme was organized on “**Disaster mitigation: Planning and management practices**” by EEI (NE Region), Jorhat during **Oct. 09-12, 2018**, at Sikkim with the collaboration of SAMETI, Sikkim. The sessions of the programme mainly focused on: Climate change in the present context and its variability on agriculture, Orientation on Disaster preparedness and planning, Techniques for disaster mitigation, Management tools for flood, drought, pests and disease management, animal disasters, Role of Government, ICT and nongovernmental organizations for implementing disaster mitigation strategy, Disaster mitigation strategies for NE Region, Case studies. Total thirty (30) Extension Functionaries from Dept. of Agriculture, ATMA and KVKs were participated in the programme.

“Education is an ornament in prosperity and refuge in adversity”

- Aristotle



22. Skills for using ICT in Agricultural Extension

“Information is power” it is said. The access to information and improved communication - crucial requirement for sustainable agril. dev. Agriculture extension- recognized as essential mechanism for delivering information and advice as input into modern farming. Extension -



becoming more diversified, more knowledge intensive, more technology intensive & more demand driven. Use of IT- can help extension workers be more effective to meet farmers' information needs including marketing of their produce. Various websites have been providing information – regarding technical, services, supplies,

weather, markets, products, govt. programmes/policies as well as for motivation – for change, scientific outlook, adoption as well as education & training support for effective behavioral change (KSA). Moreover, ICT in Extension can very well help in coordination- GOs-NGOs-VOs- People as well as help in getting feedback on a regular & continuous basis. A training programme on “Skills for using ICT in Agricultural Extension” was organized by EEI (NE Region), Jorhat during Dec 04-07, 2018, at West Bengal, with the collaboration of SAMETI, West Bengal. Different session was conducted on topics like: Highlight the scope and significance of ICT enabled Agricultural Extension, Information needs of farmers and role of ICTs in effective TOT, Constraints & challenges of ICT in agriculture, Innovative ICT initiatives by the government, private and corporate sectors in agriculture and allied sectors, ICT initiatives for information dissemination in market led extension, Community radio, Tele and video conferencing-role in TOT, Role of farmers call centres in information dissemination, Information support system and services through affordable communication networks, Identification and analysis of cases of ICT initiatives by the

*“Tell me and I forget, teach me and I may remember, involve me and I learn”
- Benjamin Franklin*



Government, private and corporate sectors in Agriculture and allied sectors, Mobile apps for farmers. Thirty (30) Extension Functionaries from Dept. of Agriculture, ATMA and KVKs were participated in the programme.

23. Training Methods and Management

In the fast changing world scenario, where repeated exposure of ever- increasing knowledge and sophisticated technology are occurring in quick succession, it is essential that all the human resources at different levels should work at a very high level of efficiency. For this, the frequent and regular training of these human resources becomes absolutely indispensable. Of the different activities of training, training methods assume the greater significance for the expected terminal behaviour in the



trainees. With this aim, a training programme on **“Training Methods and Management”** was arranged during **Jan. 29- Feb 01, 2018** by EEI (NE Region), Jorhat at Mizoram, with the collaboration of SAMETI, Mizoram. The topic of discussion for those 4 days were: Designing Training Programmes and formulation of Training Objectives, Important guidelines for Lesson Planning in Training Programmes, An overview of Training Methods, Practice on Lesson Planning and Training Programme Designing, An overview of Low cost A.V Aids, Concept and Techniques of conducting Method Demonstration, Concepts, Practices and Principles of conducting Brainstorming Session and Buzz session, Tips of conducting Focused Group Discussion, ‘Do’s and ‘Don’ts in conducting training programme, Developing Case lets and Success Stories for use in training, Training Monitoring and Evaluation etc. Thirty (30) Extension Functionaries from Dept. of Agriculture, ATMA and KVKs were participated in the programme.

“Collaboration allows us to know more than we are capable of knowing ourselves”

- Paul Solarz



24. Promotion of Organic Farming in Manipur

From **Feb 12-15, 2019**, a training programme on “**Promotion of Organic Farming in Manipur**” was organized by EEI (NE Region), Jorhat at Manipur with the collaboration of SAMETI, Manipur. The topic discussed during different session of the training programme were: An overview on Paramparagat Krishi Vikas Yojana (PKVY), Prospects of Organic Agriculture in NE states with special reference to Mizoram, Raising Organic Nursery and Organic Seed Production, Production and application of bio



fertilizers as a component of organic farming, An overview on composting- its methods of preparation and application, Participatory Guarantee System in Organic Farming (PGS), Importance and cultivation technique of Azolla, Integrated Nutrient Management (INM), Ways and means of organic standard in organic agriculture etc. Total thirty (30) participants participated in the programme. Dr. R. Baruah, Professor, Deptt of Soil Science, AAU, Jorhat had acted as an expert and one of the resource persons during the programme and highlighted the procedure while demonstrating the azolla cultivation practice.

25. Management Games and Interactive Training Tools

Management is an art or science is debatable. But one thing which is sure is that importance of management functions, learning basic management concepts and its application in day to day activity of corporate world has achieved tremendous acceptance in recent years. Over last couple of years, pedagogy in the management education is changing very fast, and one of the latest additions in this field is the management games. Based on the basic theoretical frameworks of management domains, several games are designed, which are focused at the basic and

“A problem well-put is half-solved”

- John Dewey



fundamental principles of management. Generally these games are played both individually and in teams. Major objective of these games is to enhance the eye for details, to improve analyzing skills, to enable quick decision making, to make students cooperative and team players, and to give them long lasting impressions of the subjects, which they have learnt inside classrooms. A 4-day training programme on “Management Games and Interactive Training Tools” was organized during **March 11-14, 2019** by EEI (NE Region) in collaboration with SAMETI, West Bengal. The participants were discuss and play games on Time management, Ego management, Conflict management, Team building, Communication, Leadership, Balancing work – life, Unity etc. A total of thirty one participants from Dept. of Agriculture, and ATMA participated in the programme from different states of North East. Total 30 Extension Functionaries from ATMA KVKs and NGOs were participated in the programme.



26. Use of Social Media and video production skills for Agricultural Extension

Social networking media has now become a highlight in the realm of agricultural development due to its impact on the users. Over the years, the use of media, websites and applications like face book, Telegram, Twitter, Whatsapp etc. has multiplied into more than a billion users. Keeping this in view, a training programme on “**Use of Social Media and video production skills for Agricultural Extension**” was organised by EEI (NE Region), Jorhat during **March 5-9, 2019**, at Assam, with the collaboration of SAMETI, Assam. Different session was conducted on topics like: ICT Tools and applications in Agricultural Extension, Social Media for use in Extension, Techniques of video production, Important Websites in Agriculture and

“All learning begins when our comfortable ideas turn out to be inadequate”

- John Dewey



Extension, M-Extension and its applications, Multimedia Production Tools, Mobile Apps in agriculture / extension offered by Govt. of India, e-NAM (e-National Agricultural Market), Kisan Call Centre and Flagship ICT initiatives of GOI, etc. Total 27 participants participated in the programme.



2.10 Abstract of Research study:

Research study 1: A Study on effectiveness of Soil Health Card (SHC) as perceived by the beneficiaries in NW block of Jorhat district of Assam

Objectives:

The study was carried out with the following objectives

- To study the extent of utilization of the soil health card by farmers in order to manage the soil health
- To identify the issues and pool suggested measures in better utilization of Soil Health Card

Methodology in nutshell:

The study was conducted during October- November, 2018 in NW block of Jorhat. A questionnaire consists of two parts was prepared. Part I consists of knowledge test of the farmers regarding soil health card and part II consists of the extent of utilization of soil health card. Data were collected from 90 farmers of six villages under NW block, Jorhat. Data were analyzed with the help of statistical tools like frequency, mean, percentage and ranking.

"Man's mind, once stretched by a new idea, never regains its original dimensions"
- Oliver Wendell Holmes



Salient Findings:

- Out of 90 respondents, about 59% of the farmers are able to understand the content of the SHC.
- Out of that about 62% mentioned that the recommendations are suitable for their farms and about 38% are able to follow recommendations.
- The use of micro-nutrients (especially gypsum) was slightly increased after SHC distribution.
- There was a significant increase in yield for farmers who practiced recommended practices as per the SHC.
- With the increasing yields, net-incomes of the farmers increased between 30 and 50% after using the fertilisers according to SHC.
- Majority of the farmers (58.00%) have increased the use of organic manure and organic fertilizers after getting the Soil Health Card.
- Around 58% of the respondents (Progressive Farmers) tried to motivate their nearby farmers about benefits of using fertilizers according to soil health card recommendation.
- Most of the farmers (62.00%) could not understand and interpret the importance of the recommended doses of fertilizers given in the SHCs. Arranging training programmes amongst the farmers would be an effective step for adoption of the recommended doses of fertilizers.

Research study 2: A Study on Information Source Utilization by the members of Farm School in Golaghat District of Assam**Objectives:**

The study was carried out with the following objectives

- To identify access to different information sources by the members of Farm School
- To determine extent of utilization of Kisan Call Centre (KCC) and Mobile App by members of Farm School
- To find out problems and constraints in using different information source by the farmers

“Pacifism is simply undisguised cowardice”

- Adolf Hitler



Methodology in nutshell:

The study was designed to be carried out in Golaghat District of Assam during the year 2018-19. The district was selected purposively based on number of Farm School members. A structured schedule was prepared and a total of 60 participants were interviewed. The data collected were analyzed with the help of statistical tools like frequency, mean and percentage.

Salient Findings:

- Out of 60 respondents, majority (47.8 %) of the respondents were between the age of 30-50 years while 28.9 percent of them were below 30 years and 23.3 per cent of them above 50 years.
- Educational Qualification of majority (56.7%) of the respondents is high school followed by Higher Secondary (28.3%). A few (15%) respondents were under graduate in the study area.
- Among different information sources available, majority of the respondents have frequent access to Television (71.66%), Newspaper (73.33%) and Extension Officers (85.00%).
- It was encouraging to found that majority of the respondents (83.00 %) have heard about Kisan Call Centre whereas a few (28.9%) respondents were aware of Mobile apps.
- All the participants who have heard about Kisan Call Centre know the Toll Free number of Kisan Call Centre
- Although 83 percent of the respondents have heard about Kisan Call Centre but 68 percent of the respondents have made calls and their preference of language used was Assamese.
- Among the total users of Kisan Call centre, 36.7 percent used to call more than three times in the last year whereas 63.3 percent have made calls upto thrice during the year.
- Most frequently seek informations were on pest management and pesticide application in crop field, livestock and other allied subject matter. Respondents also seek information on disease management, application of bio fertilizer as well as chemical fertilizer, irrigation, farm machinery etc.

"Smooth seas do not make skillful sailors"

- African Proverb



- All the Kisan Call Centre user respondents (68.00%) are satisfied with the informations provided by the Centre and recommend as trustworthy and hence they use to share those with neighbours and other farmers friends when needed.
- In comparison to Kisan Call Centre a 28.9 percent of the respondents have heard about mobile apps and 25.5 percent are regular user of mobile apps registered by GoI and other agencies.
- Mobile App user respondents were quite satisfied with their information provided by the apps, however few constraints are found against its popularity and dissemination among the respondents
- Major factors were identified as constraints against popularity, dissemination and application of mobile apps were inability to access to smart phone, unavailability of internet, lack of knowledge lack of awareness etc.

"Try to learn something about everything and everything about something."

— Thomas H. Huxley



2.11: Skill Development Training

The institute has conducted two Skill Development Training Programme of Agriculture Skill Council of India during 2018-19. The training programmes were:

1. Floriculturist (Open Cultivation)

- This training was conducted during November 28, 2018 to January 02, 2019.
- Total twenty two participants from different districts of Assam were participated in the training programme.
- Training Completed on January 02, 2019.
- Assessment of trainees was done on January 25, 2019.
- Certificates were distributed to the participants in March 05, 2019.



"Higher for passion and intensity; there is training for everything else"
- Nolan Bushnell



2. Hatchery (Fishery) Production Worker

- This training was started on January 21, 2019.
- Total twenty two participants from different districts of Assam were participated in the training programme.
- The training was completed on March 2, 2019.



"Many activities and team play participation will give you a training that will prove invaluable later on in life."

- W. Annenberg



2.12. Significant Events

1. Community based biodiversity conservation and Rural Eco Tourism enterprise project

EEI (NE Region) provided support to the North East Affected Area Development Society (NEADS), NGO, Jorhat in establishing a Community based biodiversity conservation and Rural Eco Tourism enterprise project, Jorhat district. NEADS, Jorhat has assured manpower support for implementation of this Project under the technical guidance of EEI (NER) and few other agencies. NEADS is a prominent NGO in Jorhat District of Assam since 2017-18.



- During 2018-19 Community mobilization of the beneficiaries successfully initiated.
- Need based training programmes on Pisciculture, Apiculture, livestock rearing etc were conducted for the project beneficiaries.
- Organized World Environment Day on June 5, 2018 with community distribution of saplings and awareness programme.



“Always walk through life as if you have something new to learn and you will”

- Vernon Howard



- Faculty Dr. Sajib Borua with Research Associates of EEI (NE Region) has participated in Foundation Day of “Biodiversity and Eco-Tourism development Committee” in Jatakia village of Fesual area on March 3, 2019.

2. Collaborative Programmes with CCS-NIAM

EEI (NE Region) has Conducted two training programme in collaboration with CCS- NIAM during 2018-19.

- “Value chain Analysis for Agricultural Commodities” during January 18-19, 2019.
- “Public Private Partnership (PPP)” during March 18-20, 2019.

3. Participated in “International Yoga Day”

- “International Yoga Day” was organised at Assam Agricultural University on June 21, 2019.

- All the participant trainees of EEI (NE Region) on-campus training programme ‘Scientific Management of Integrated Farming System in NE states’ along with other AAU Staff participated the event by exercising Yoga together at AAU Indore stadium.



4. Organizing Regional Workshop on Skill Development

- EEI (NER) Organized Skill Development Workshop at Guwahati for NE Region on Oct 05, 2018 on behalf of Department of Agriculture, Cooperation and Farmers welfare, Ministry of Agriculture and Farmers Welfare, Govt of India, and in collaboration with Department of Agriculture, Govt. of Assam.

“Action comes about if and only if we find a discrepancy between what we are experiencing and what we want to experience”

- Philip J. Ryckel



- The dignitaries participated in the workshop include, Shri Atul Bora, Agricultural Minister, Govt. of Assam, Dr K. M. Bujarbaruah, VC, AAU; Shri P.K. Borthakur, IAS, MD & Chairman, APEDA, Govt. of India; Shri Amlan Boruah, IAS, Commissioner & Secretary (Agriculture), Govt. of Assam, Shri M.S. Manivavan, IAS, Director of Agriculture, Govt. of Assam, and Shri S, Arya, CEO, ASCI.



- Shri P.K. Borthakur, IAS, MD & Chairman, APEDA, Govt. of India illustrated the export potentials of NE states, and commented that APEDA will certainly take up needful steps for export of agricultural produces from NE states.



- The workshop focused on aggregation of farmers

through FPC, skill training all along the value chain, skilling in allied sectors for doubling of farmer's income etc.

- A total of 200 officers from relevant departments and organizations of NE states, and resource persons from MSDE, NSDA, NSDC, ASCI, APEDA, AAU and SSM made presentations.

"Science is a way of thinking much more than it is a body of knowledge"

- Carl Sagan



Salient Recommendations of Workshop

1. Skill Development trainings are to be conducted extensively in NE Region particularly on various components of Organic farming, Horticulture and value addition of selected agricultural produces.
2. The Skill Development Programme has to be able to contribute towards harnessing of the distinctive features and potentialities of NE region for faster development in agriculture and allied sectors. The programme also needs to contribute substantially towards dissemination of innovative agricultural technologies in NE states.
3. APEDA would play significant role in developing agri-entrepreneurship in NE Region. There is need of collaborative effort of APEDA and agricultural development departments and organisations as because APEDA supports exporters while exporters depends on availability of products which have to be produced by farmers and agri-entrepreneurs.
4. There is need of dialoguing between agri-entrepreneurs and exporters. The departments and organisations meant for agricultural development have to facilitate the same.
5. There is a need of fund to equip KVKs with infrastructure, equipments and machineries etc. in order to conduct the skill development trainings effectively- effectiveness of as such a training crucially depends on extensive practice sessions.
6. Training institutions for skill development training for different subject matters need to be selected carefully.



“The art and science of asking questions is the source of all knowledge”

- Thomas Berger



Those institutions are to be selected which are equipped with manpower and infrastructure. Allocation of skill development training to an organisation which does not have resources and trainer might lead to inefficient and ineffective utilization of fund.

7. There is a need of sector or domain-wise networking among institutes selected for skill trainings in the region so that they function symbiotically, and with collaboration and convergence.
8. There is a need of aligning all training programmes of different schemes with National Skill Qualification Framework (NSQF) of NSDA.
9. Bio-tech based incubators are to be established in all NE states, and the incubators may be entrusted responsibilities to provide skill training to the youths on relevant technologies.
10. There is need of paradigm shift from Training to skilling. The Skill development trainings are to be conducted with main emphasis on imparting skills. The Practical:: theory ratio of 70::30 need to follow strictly.



“All our knowledge begins with the senses, proceeds then to the understanding, and ends with reason. There is nothing higher than reason”

- Immanuel Kant



Glimpses of Regional Workshop on Skill Development



"An optimist sees the opportunity in every difficulty"

- Winston Churchill



5. Construction of EEI (NE Region) administrative building

- Construction of EEI Building at AAU Campus, Khanapara, Guwahati is going on.
- AAU, Jorhat released 50 (Fifty) lakh in February, 2019.
- Around 68 percent work has completed up to March 31, 2019



6. Participated in Regional Workshop organized by College of Horticulture and Agro-Forestry

- College of Horticulture and Agro-Forestry, Arunachal Pradesh organized Regional Workshop “Agrarian Crisis and Socio-Economic Issues among Rural Tribal Youth in North East Hill Region of India” during Nov. 14-15, 2019.
- Director, EEI (NE Region) has participated in the workshop and provided technical support.



*“Knowledge is of no value unless you put it in to practice”
- Anton Chekhov*



7. Organizing “Swachhta Pakhwada”, during Dec 16- 31, 2019

- As notified by the DAC, MoA & FW, GOI, a Swachh Bharat Abhiyan was initiated also at EEI (NE Region), AAU, Jorhat on December 20, 2018 at the hostel Brahmaputra and the Extension Education Complex/Compound.
- Dr. P. K. Neog, Director, EEI (NE Region), AAU, Jorhat launched the cleanliness drive.



8. Flagship Programme of KVK, Jorhat

- A flagship programme, “Pradhan Mantri Kisan Samman Nidhi” was organised by KVK, Jorhat, on Feb 24, 2019
- As a Chief guest, Director EEI (NE Region) inaugurated the programme.



*“Strength does not come from the physical capacity.
It comes from an indomitable will.”*

- Gandhi



9. Play cards Distribution

- On World Environment Day, June 5, 2019 EEI (NE Region) distributed and fixed some Play cards in Fesual area on messages related to environmental protection.



PROPOSED PROGRAMMES for 2019-20

EEI (NE Region) has identified the training needs of its client departments for the academic year 2019-20 by following the steps mentioned below:

Step-1: Compilation of the training needs obtained from the participants of the training programmes of previous years.

Step-2: Preparation and mailing of 'Annual Training Need Assessment Questionnaire' to the client departments and organizations in order to obtain training needs of trust areas.

Step 3: Compilation of training needs obtained from the above mentioned steps and updated in the Regional Workshop on Implementation of Central Sector Schemes and Training Planning for NE States held on March 26-27, 2019.

Step 4: Finalization of thrust areas and themes of capacity building in the Annual Training Planning Workshop for MANAGE, EEIs and SAMETIs' organized by MANAGE, Hyderabad held on February, 2019.

"Education without application is just entertainment"

- Tim Sanders



Step 5: The finalization of academic calendar for 2019-20 of EEI (NE Region) was done in the Academic Committee meeting during March 27, 2019.

The summary of proposed programmes to be conducted by EEI, Jorhat is listed in the Table 6.

Table 3. Summary of proposed programmes to be conducted by EEI, Jorhat during 2019-20

S.N.	Type of Programme	Number
A	Off Campus and On-Campus Training Programmes	
1.	On-campus Training Programme / Workshop	09
2.	Off-campus Training Programme	18
3.	Skill Training	02
4.	Regional Workshop	01
Total Training/ Workshop programme		30
B	Other Programmes	
1	PGDAEM contact class (Assam and Nagaland)	04
2	PGDAEM Examination (Assam and Nagaland)	02
3	Research Studies	01
4	Action Research (On-going)	01
Total programmes		38

3.1 Proposed Academic Calendar for the year 2019-20

The following programmes will be conducted during 2019-20.

3.1.1. On Campus Programmes

SN	Training/Workshop	Dates, Duration	Venue
1.	Soft Skills and Interpersonal effectiveness	May 28-01, 2019	EEI (NE Region), Jorhat
2.	Training Skills and Methods for faculties of SAMETI and other institutes/organisations	June 11-15, 2019	EEI (NE Region), Jorhat
3.	Entrepreneurship Development in Livestock and Poultry Sector-Potential Enterprises and Extension Approaches [in collaboration with ADEE (Vety), AAU, Khanapara]	July 30-Aug 03, 2019	CVSc. AAU, Khanapara, Guwahati
4.	Managerial Skills, Work Culture and Work Ethics for Agricultural Extension	Aug 27-31, 2019	

“Learning is a treasure that will follow its owner everywhere”

- Chinese Proverb



5.	Climate Smart Agriculture and Disaster mitigation: Planning and management practices	Sept 24-28, 2019	
6.	Extension Methods and Tools for promotion of FPO	Oct 22-26, 2019	EEI (NE Region), Jorhat
7.	Production Trend and Export Potential of Agricultural Commodities in NE Region	Nov 05-09, 2019	EEI (NE Region), Jorhat
8.	Advances in Livestock Husbandry and Extension Approaches for popularizing Agricultural Technology [in collaboration with ADEE (Vety), AAU, Khanapara]	Nov 26-30, 2019	CVSc. AAU, Khanapara, Guwahati
9.	Promotion of Agri-tourism and Agri Start-ups in NE Region	Jan 7-11, 2020	EEI (NE Region), Jorhat

3.1.2 Regional Workshop:

SN	Programmes	Dates, Duration	Venue
1.	Regional Workshop on Implementation of Central Sector Schemes and Training Planning of EEI (NE Region) and SAMETIs of NE States	Dates to be decided (January, 2020)	To be decided

3.1.3 Off- Campus Programmes

SN	Programmes	Dates & Duration	Venue
1.	Participatory Methods and Techniques for Agricultural Extension	June 18-21, 2019	SAMETI, Nagaland
2.	Video production skills for Agricultural Extension	June 25-28, 2019	SAMETI, West Bengal
3.	ICT applications for Agricultural Extension	July 02-05, 2019	SAMETI, Sikkim
4.	Promotion of Bio-fertilizer for enhancing Organic Agriculture in Tripura	July 09-12, 2019	T-SAMETI, Tripura
5.	Skill development for m-Extension, e-Extension and e- Marketing	July 16-19, 2019	SAMETI, Assam
6.	Agri-Entrepreneurship Development through Agricultural Extension in Arunachal Pradesh: Potential Enterprises & Extension Approaches	Aug 06-09, 2019	SAMETI, Arunachal Pradesh

"Excellence is not a skill. It's an attitude"

- Ralph Marston



SN	Programmes	Dates & Duration	Venue
7.	Public Private Partnership for agricultural development	Sept 03-06, 2019	SAMETI, Meghalaya
8.	Extension and Training Methods for Extension Functionaries	Sept 03-06, 2019	SAMETI, Manipur
9.	Supply Chain Management in Agriculture and allied sectors	Sept 10-13, 2019	SAMETI, Mizoram
10.	Agri-Entrepreneurship Development through Agricultural Extension	Oct 22-25, 2019	SAMETI, Nagaland
11.	Skill development for m-Extension, e-Extension and e- Marketing	Nov 19-22, 2019	T- SAMETI, Tripura
12.	Farm Journalism and Production of Mass Media Resources	Nov 19-22, 2019	SAMETI, Sikkim
13.	ICT applications for Agricultural Extension	Dec 10-13, 2019	SAMETI, Meghalaya
14.	Supply Chain Management in Agriculture and allied sectors	Dec 17-20, 2019	SAMETI, Assam
15.	Management Games and Management Skills for Extension Functionaries	Jan 28-31, 2020	SAMETI, Arunachal Pradesh
16.	Management Games and Management Skills for Extension Functionaries	Jan 28-31, 2020	SAMETI, Manipur
17.	Participatory Methods and Techniques for effective Extension Services	Feb 04-07, 2020	SAMETI, Mizoram
18.	Documentation and Writing Skills for Extension Professional	Feb 18-21, 2020	SAMETI, West Bengal

3.1.6 Skill Development Training

It is proposed to conduct 2 Skill Development Training of 200 hrs during 2019-20.

SN	Programmes	Dates, Duration	Venue
1	Skill Development on Hatchery Production Worker (Fishery) (200hrs – ASCI)	June 17- July 25, 2019	EEI (NE Region), Jorhat
2	Skill development for Beekeeper (200hrs – ASCI)	Nov 25-Dec 31, 2019	EEI (NE Region), Jorhat

“Wisdom is learning what to overlook”

- William James



3.2. PGDAEM Programmes

The following PGDAEM programmes will be conducted during 2019-20

Table 3.2. PGDAEM programmes to be conducted during 2019-20

SN	Programme	Dates& Duration (Tentative)
1.	Contact classes of PGDAEM 1 st Semester for Assam	Dates to be decided
2.	Contact classes of PGDAEM 1 st Semester for Nagaland	Dates to be decided
3.	PGDAEM Examination 1 st Semester, Assam	Dates to be decided
4.	Contact classes of PGDAEM 2 nd Semester for Assam	Dates to be decided
5.	Contact classes of PGDAEM 2 nd Semester for Nagaland	Dates to be decided

3.3 Proposed Research study

The following research study has been proposed for 2019-20

Research Title 1:

A Study on Impact Assessment of Skill Development Training Programme (200 Hrs)

Objectives:

1. To assess the application of skills and knowledge acquired in the Skill Training for Rural Youth (STRY) programme.
2. To scout any enterprises established as a result of STRY programme.
3. To find the problems and possible suggestions for improving the STRY programme.

Methodology:

- Primary and secondary data will be collected from the farmer respondents
- Focused Group Discussion method, Structured Interview and Semi Structured Interview method may be applied to collect the relevant information.

“Ideas without action aren’t ideas. They’re regrets”

- Steve Jobs



4. FINANCIAL PERFORMANCE OF THE INSTITUTE, 2018-19

A summary of the budget allocation and expenditures during 2018-19 is given hereunder:

Statement of expenditure, 2018-19 as on

(Rs. in Lakh)

SN	Head of Expenditure	Allocation	Expenditure
1.	Pay & Allowances	Rs. 152.18	Rs. 125.55
2.	Travelling Expenses	Rs. 8.00	Rs. 4.47
3.	Training Cost	Rs. 60.00	Rs. 48.84
4.	Operational Cost	Rs. 20.00	Rs. 14.58
5.	Non Recurring Cost	Rs. 59.82	-
Total		Rs. 300.00	Rs. 193.44

Status of Present Financial position

(Rs. in Lakh)

Opening balance on 01-04-2018	Rs. 50.86
Fund received during 2018-19	Rs. 300.00
Total fund received	Rs. 350.86
Expenditure up to 31.03.2019 (26-03-2019)	Rs. 193.44
Balance as on 31.03.2018 (26-03-2019)	Rs. 157.42

"Listening is a master skill for personal and professional greatness"

- Robin S. Sharma



5. HIGHLIGHTS OF PERFORMANCE SINCE INCEPTION

During last 27 years i.e. 1989 to 2018-19, EEI (NE Region) AAU, Jorhat conducted 507 number of training programmes in which a total of 12,135 extension functionaries of NE states participated. The salient aspects of performance of the institute during last 10 years are presented under the following heads:

5.1. Theme-wise distribution of Training Programmes

5.2. No. of training programmes in the last 10 years

5.3. Trends of participation during last 10 years

5.4. Trend of percentage of seat utilization during last 10 years

5.1. Theme-wise Distribution of Training Programmes

A total of 507 numbers of training programmes were conducted in the last 29 years. The theme wise distributions of training programmes were enlisted in the table given below.

Table 5.1. Theme wise distribution of training programmes

SN	Theme of the training programme	Numbers of training programme
1	Extension Methodology (EM)	36
2	Interpersonal Skills: Communication skills and motivational skills (IS)	67
3	Training , Human Resource Development & Institutional Capacity Building	77
4	Managerial Skills	73
5	Gender Mainstreaming : Household and Nutritional Security	16
6	Agricultural Technologies (AT)	105
7	Agricultural Extension Policy, Reforms and Processes	89
8	Agricultural Knowledge Management, ICT and Mass Media	36
9	Agri-business: Agri-Entrepreneurship and Public Private Partnership	25
10	Agricultural Marketing, Supply Chain Management	12
Total		536

"The quieter you become, the more you can hear"

- Buddha



5.2. No. of training programmes during last 10 years

The number of training programmes conducted in the last 10 years is given in Fig 6 (Table 1, Appendix I).

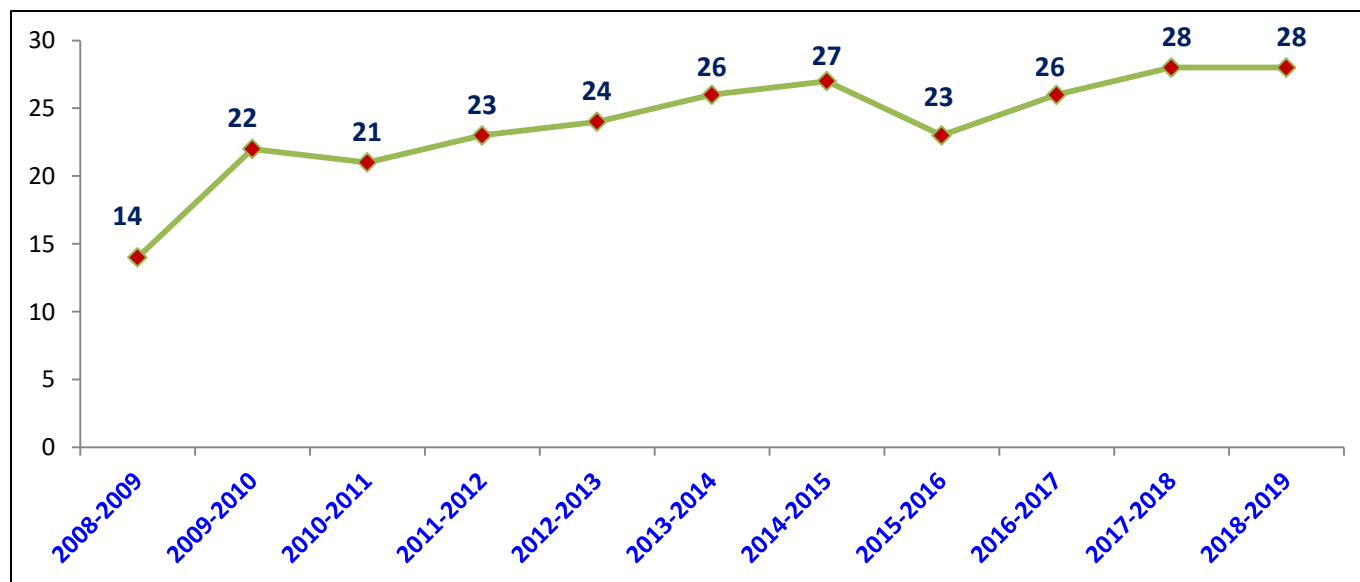


Fig.5: No. of Training Programmes in the last 10 years

5.3. Trends of participation during last 10 years

The trend of participation in the last 10 years is given in Fig. 7 (Table 1, Appendix I).

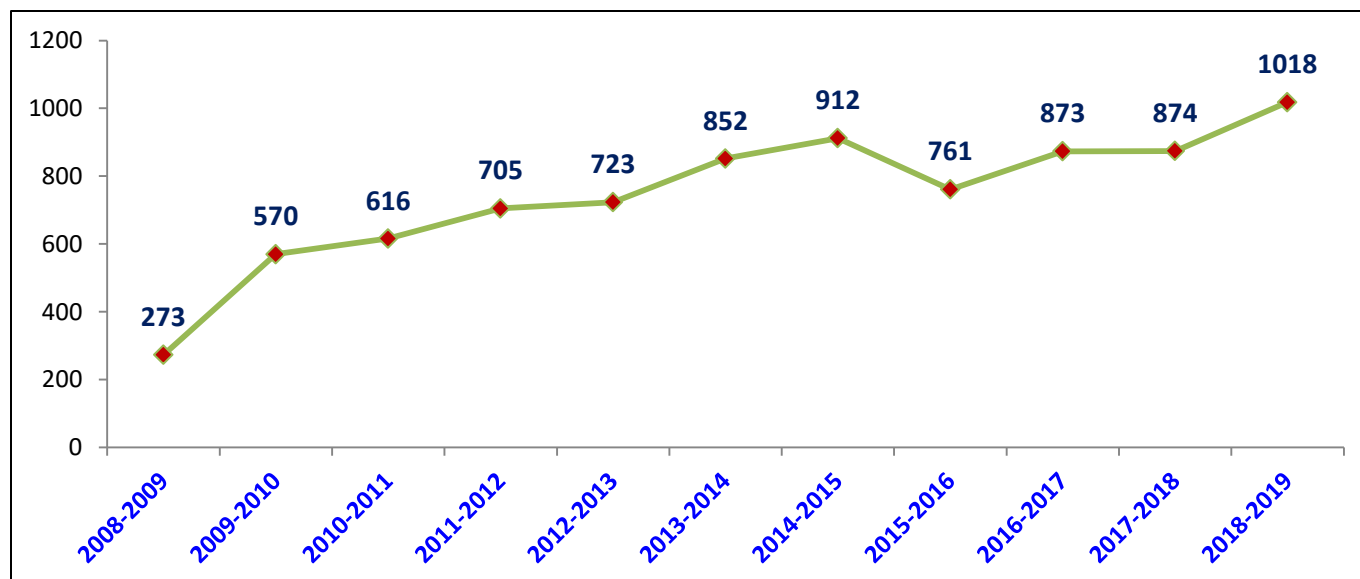


Fig.6: Number of participants during last 10 years

“Making good decisions is a crucial skill at every level”

- Peter Drucker



5.4. Trends of percentage of seat utilization during last 10 years

The figure below shows the percentage of seat utilization in the training programmes of EEI(NE Region) AAU, Jorhat in the last 10 years.

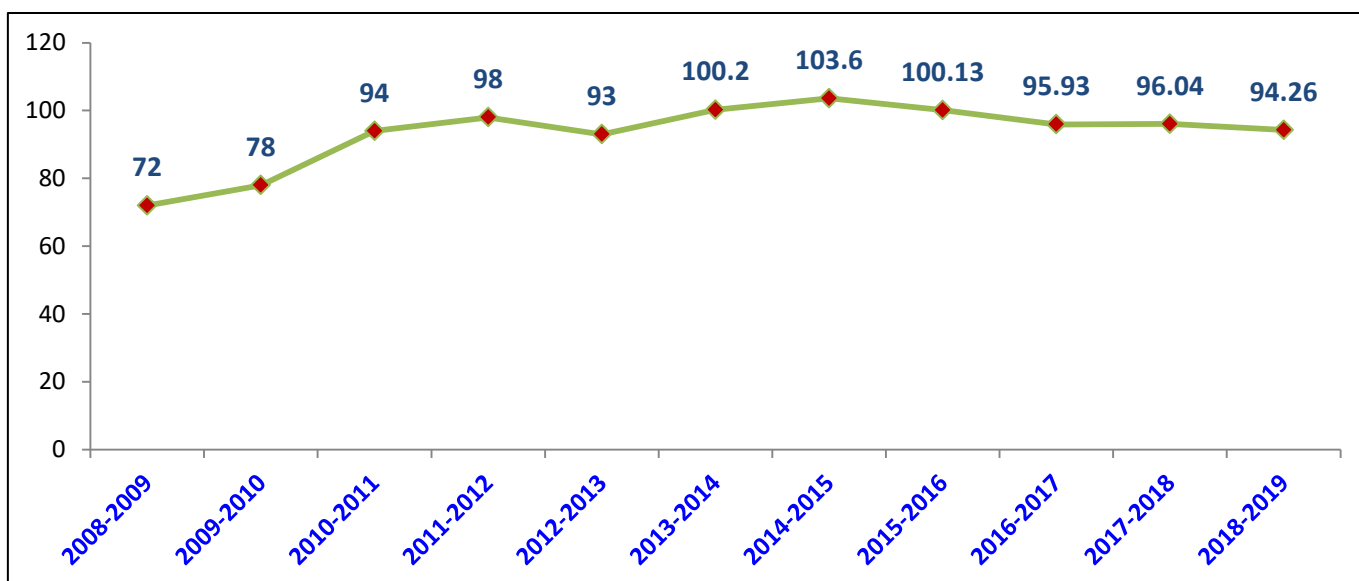


Fig.7: Trends of seat utilization (%) during last 10 years

“A life of joy and happiness is possible only on the basis of knowledge and science”

- Radhakrishnan

APPENDIX – I**Table 1: Summary of Training Programmes in the last 10 years**

SN	Year	Total no. of Training	No. of Participants
1.	2007-2008	15	280
2.	2008-2009	14	273
3.	2009-2010	22	570
4.	2010-2011	21	616
5.	2011-2012	23	705
6.	2012-2013	24	723
7.	2013-2014	26	852
8.	2014-2015	27	912
9.	2015-2016	22	667
10.	2016-2017	26	873
11.	2017-2018	28	874
12.	2018-2019	28	1018

Table 2: State-wise distribution of Participants in the Programmes during 2018-19

S N	States	Total Target	Total no. of Participants (Achievement)
1	Assam	326	321
2	Arunachal Pradesh	86	83
3	Manipur	86	114
4	Meghalaya	86	81
5	Mizoram	128	94
6	Nagaland	86	83
7	Sikkim	86	69
8	Tripura	86	97
9	West Bengal	86	60
10	Others	24	16
TOTAL		1080	1018

“Faith is the bird that feels the light when the down is still dark”

- Rabindranath Tagore



Appendix II**Table 3: Discipline/Department wise distribution of participants in the programmes during 2018-19**

SN	Programmes	KVK/ ICAR/ SAU	ATMA/ SAMET I	Agri	Horti	AH & Vety	Fisher y	Seri	Othe rs	Total
1	Management Games and Interactive Training Tools	2	17	4	-	2	3	-	3	31
2	Production and Use of Mass Media resources and Presentation Skills for Agricultural Extension	-	29	-	-	-	-	-	-	29
3	Skills for using ICT in Agricultural Extension	-	30	-	-	-	-	-	-	30
4	Use of Social Media and Video production skills for Agricultural Extension	-	22	5	-	1	-	2	-	30
5	Scientific management of Integrated Farming Systems in NE states.	3	12	4	1	5	6	-	8	39
6	Promotion of Agri-ecotourism and Export Orientation	-	27	-	-	-	-	-	5	32
7	Advances in Organic Farming and INM	-	3	28	-	-	-	-	-	31
8	Promotion of Organic Farming in Nagaland	-	30	-	-	-	-	-	-	30
9	Soft Skills and Training Methods for Trainers	3	12	2	-	2	4	-	4	27
10	Workshop on Agricultural Marketing and Micro Finance	-	8	23	-	-	1	-	-	32
11	Extension approaches for mainstreaming farm women and popularizing gender friendly tools and practices	3	15	4	2	2	3	-	3	32
12	Extension Skills for Implementation of Major Agricultural Development Schemes	0	22	5	-	-	-	3	-	30
13	Harnessing water resources and irrigation Management in NE states (with support of MANAGE, Hyderabad)	8	8	6	-	-	-	-	2	24
14	Production and Use of Mass Media resources and Presentation Skills for Agricultural Extension	2	21	5	2	-	-	-	-	30

“Do one thing at a time, and while doing it put your whole soul into it to the Exclusion of all else”

- Swami Vivekananda



SN	Programmes	KVK/ ICAR/ SAU	ATMA/ SAME TI	Agri	Horti	AH & Vety	Fisher y	Seri	Othe rs	Total
15	Community organization and Leadership skills for Extension Personnel	1	21	14	-	-	4	-	-	40
16	Workshop on Climate Smart Agriculture	-	9	4	-	2	3	3	-	21
17	Disaster mitigation: Planning and management practices	2	9	5	-	1	11	-	-	28
18	Community organization for Livestock and Dairy Development	-	33	-	-	-	-	-	-	33
19	Farm mechanization in small holdings in Hilly areas	-	30	-	-	-	-	-	-	30
20	Advances in Farm Mechanization in Small Holdings	8	16	4	-	-	-	-	-	30
21	Disaster mitigation: Planning and management practices	-	30	-	-	-	-	-	-	30
22	Skills for using ICT in Agricultural Extension	4	21	5	-	-	-	-	-	30
23	Training Methods and Management	2	27	-	-	-	-	-	1	30
24	State Level workshop on Promotion of Organic Farming in Manipur	-	30	-	-	-	-	-	-	30
25	Management Games and Interactive Training tools	3	12	15	-	-	-	-	-	30
26	Regional Workshop on Implementation of Central Sector Schemes and Training Planning of EEI (NE Region) and SAMETIs of NE States	-	-	-	-	-	-	-	-	-
27	Use of Social Media and Video production skills for Agricultural Extension	8	13	2	-	-	-	-	3	26
28	Skill Development Training on "Floriculturist" (Open Cultivation)	-	-	-	-	-	-	-	22	22
29	Skill Development Training on "Hatchery Production Worker (Fishery)"	-	-	-	-	-	-	-	20	20
30	Regional Workshop on Skill Development in Agriculture and Allied Sector	-	-	123	17	10	4	-	37	191
Total		49	507	258	24	25	39	8	108	1018
Percentage (%)		4.82	49.80	25.34	2.36	2.45	3.84	0.78	10.61	100

"The secret of education lies in respecting the pupil."

- Emerson



APPENDIX III**Table 4: Gender distribution of participants in the programmes during 2018-19**

SN	Programmes	Gender		Total
		Male	Female	
1	Management Games and Interactive Training Tools	24	7	31
2	Production and Use of Mass Media resources and Presentation Skills for Agricultural Extension	17	12	29
3	Skills for using ICT in Agricultural Extension	22	8	30
4	Use of Social Media and Video production skills for Agricultural Extension	18	12	30
5	Scientific management of Integrated Farming Systems in NE states.	30	9	39
6	Promotion of Agri-ecotourism and Export Orientation	21	11	32
7	Advances in Organic Farming and INM	22	9	31
8	Promotion of Organic Farming in Nagaland	17	13	30
9	Soft Skills and Training Methods for Trainers	14	13	27
10	Workshop on Agricultural Marketing and Micro Finance	26	6	32
11	Extension approaches for mainstreaming farm women and popularizing gender friendly tools and practices	14	18	32
12	Extension Skills for Implementation of Major Agricultural Development Schemes	17	13	30
13	Harnessing water resources and irrigation Management in NE states (with support of MANAGE, Hyderabad)	13	11	24
14	Production and Use of Mass Media resources and Presentation Skills for Agricultural Extension	7	23	30
15	Community organization and Leadership skills for Extension Personnel	24	16	40
16	Workshop on Climate Smart Agriculture	12	9	21
17	Disaster mitigation: Planning and management practices	22	6	28
18	Community organization for Livestock and Dairy Development	28	5	33

“Language is courage: the ability to conceive a thought, to speak it, and by doing so make it true”

- Salman Rushdie



SN	Programmes	Gender		Total
		Male	Female	
19	Farm mechanization in small holdings in Hilly areas	17	13	30
20	Advances in Farm Mechanization in Small Holdings	21	9	30
21	Disaster mitigation: Planning and management practices	15	15	30
22	Skills for using ICT in Agricultural Extension	26	4	30
23	Training Methods and Management	16	14	30
24	State Level workshop on Promotion of Organic Farming in Manipur	12	18	30
25	Management Games and Interactive Training tools	29	1	30
26	Regional Workshop on Implementation of Central Sector Schemes and Training Planning of EEI (NE Region) and SAMETIs of NE States	0	0	0
27	Use of Social Media and Video production skills for Agricultural Extension	17	9	26
28	Skill Development Training on Floriculturist (Open Cultivation) (200 hrs-ASCI)	11	11	22
29	Skill Development Training on Hatchery Production Worker (Fishery) (200 hrs-ASCI)	16	4	20
30	Regional Workshop on Skill Development in Agriculture and Allied Sector in NE Region	112	79	191
	Total	640	378	1018
	Percentage (%)	62.86837	37.13163	100

“Life is a succession of lessons which must be lived to be understood”

- Emerson



APPENDIX IV**Table 5: Subject matter wise distribution of Training on Extension Management during 1989 to 2018**

SN	Subject Matter	No. of Training programme	No. of participants
1.	Communication skills and extension teaching methods	56	1092
2.	Training methods and training programme management	74	1542
3.	Teamwork and managerial skill development	60	1201
4.	Recent initiatives & On-going schemes, Prog., Supports of DAC,GOI	3	388
5.	PRA methods and participatory planning	22	502
6.	Formation, promotion and management of CIG/SHG/NGO	30	683
7.	Preparation and use of audio-visual aids	12	170
8.	Farming situation based extension (FSBE)	12	135
9.	Entrepreneurship development	18	319
10.	Farm journalism and Mass media production and use	8	169
11.	Leadership development	13	316
12.	Motivation techniques and Extension Management	4	83
13.	IT application in Agricultural Extension and Cyber Extension	6	135
14.	Public Private Partnership	10	234
15.	Market led extension	10	292
16.	Gender Sensitization and Empowerment of women	12	346
17.	Planning, monitoring and evaluation of project	13	262
18.	Behavioural skills development	12	326
19.	Climate change in context to agriculture	9	292
20.	Participatory Watershed Development	11	203
21.	Management of IPM programme	3	69
22.	Extension Reform	42	1698
23.	Rice Hispa control in Jorhat District	4	87
24.	Zonal Workshop Improvement	4	57
25.	Cluster Training Improvement	5	86
26.	Capacity building of Field Management Committees in Assam	5	150
27.	Action Research	1	16
28.	Plant Variety Protection and Farmer's Rights	3	89
29.	Nutrition Education and Agriculture Interface for rural health	1	28
30.	Process documentation and Record keeping	4	75
31.	Advanced Technologies in Organic Farming	13	402
32.	Information & Communication Technology (ICT)	7	181
A	TOTAL	487	11628

*"The quieter you become, the more you can hear"**- Buddha*

Table 6: Discipline wise distribution of training programme on technological aspects during 1989 to 2018

SN	Subject matter	No. of Training programme	No. of participants
1	Agricultural Technology	36	1142
2	Animal husbandry and Vety	9	258
3	Horticultural technology	3	90
4	Sericulture Technology	1	35
B	TOTAL	49	1525

Grand Total (A+B)

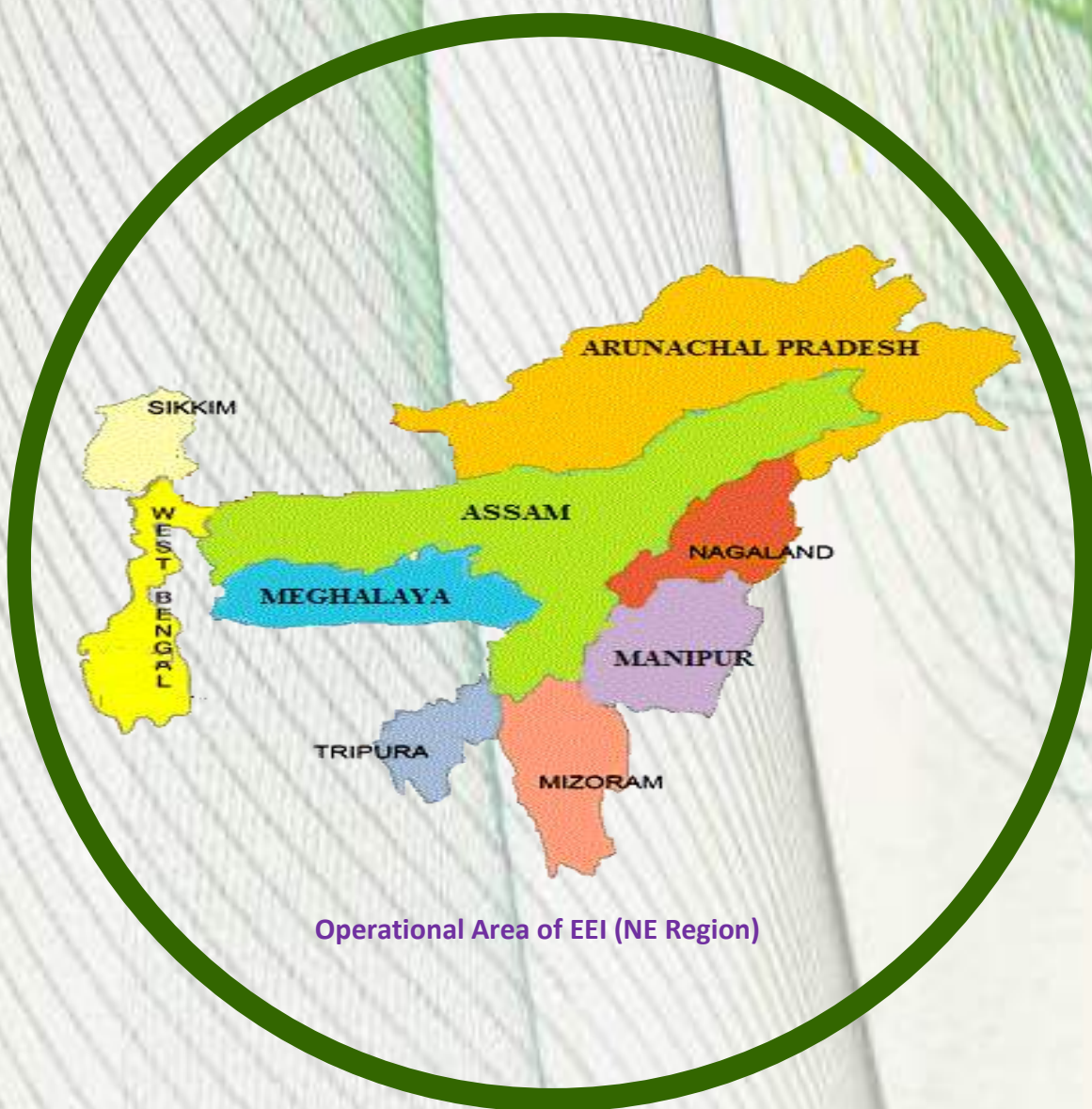
Total number of training programme : 536

Total number of participants : 13153

*“Be a free thinker and don’t accept everything you hear as truth.
Be critical and evaluate what you believe in”*

- Aristotle





Operational Area of EEI (NE Region)



EXTENSION EDUCATION INSTITUTE (NE REGION)
Ministry of Agriculture and Farmers Welfare, Govt of India,
Assam Agricultural University, Jorhat-13
Phone: 0376-2340133 Fax: 0376-2341227
E-mail: eei.jorhat@yahoo.com

