Experiential Learning Programme

Accomplishments

2019

Agricultural Education Division
Indian Council of Agricultural Research (ICAR)
New Delhi

Experiential Learning Programme

Accomplishments

Nidhi Verma
P S Pandey
N S Rathore

2019

Agricultural Education Division
Indian Council of Agricultural Research (ICAR)
New Delhi

Printed: July 2019

Compiled by:
Agricultural Education Division
Indian Council of Agricultural Research
Krishi Anusandhan Bhawan-II, Pusa
New Delhi-110012
www.icar.org.in

Design & printed at:
M/s Royal Offset Printers, A-89/1, Naraina Industrial Area, Phase-I, New Delhi-110028.

ujUæ Çlg rkej
केंद्रीय कृषि एवं किसान कल्याण,
ग्रामीण विकास और पंचायती राज मंत्री
भारत सरकार

lnsa'k

जनसंख्या में वृद्धि के साथ खाद्य और कृषि उपज की मांग में वृद्धि स्वाभाविक है और कृषि उत्पादकता बढ़ाने के लिए कृषि के क्षेत्र में विशिष्ट कौशल की आवश्यकता होती है। इसे दृष्टि में रखते हुए देश में कृषि कौशल विकास और उद्यमिता संवर्धन की प्रणाली के पुनर्गठन की आवश्यकता है। कौशल विकास कार्यक्रम, उद्योग की जरूरतों के अनुसार ऐसा होना चाहिए जिससे देशवासियों के जीवन की गुणवत्ता में वृद्धि हो सके। इसलिए देशभर में कौशल विकास और उद्यमिता प्रयासों को मजबूत करने की जरूरत है।

भारतीय कृषि अनुसंधान परिषद, नई दिल्ली ने कृषि स्नातकों की रोजगारपरकता में सुधार लाने के लिए दसवीं योजना के दौरान अनुभवजन्य प्रशिक्षण इकाई कार्यक्रम आरंभ किया है। पांचवीं डीन समिति की रिपोर्ट के अनुसार अनुभवजन्य इकाई अब एक नए कार्यक्रम– Nk= xkeh.k mn;ferk tkx:drk fodkl ;ktuk **(Student READY)** का अभिन्न अंग है। इस कार्यक्रम द्वारा देशभर में स्थित कृषि विश्वविद्यालयों के साथ भागीदारी के माध्यम से कृषि छात्रों को उद्यमिता का प्रशिक्षण दिया जाता है। भारत सरकार ने कौशल विकास को प्राथमिकता दी है और इस दिशा में अनुभवजन्य प्रशिक्षण इकाई कार्यक्रम भारतीय कृषि अनुसंधान परिषद का एक महत्वपूर्ण प्रयास है।

मुझे यह जानकर हर्ष है कि अनुभवजन्य प्रशिक्षण इकाई कार्यक्रम की उपलब्धियों का संकलन प्रकाशित किया जा रहा है। इस अवसर पर मैं भारतीय कृषि अनुसंधान परिषद और देश के सभी कृषि–विश्वविद्यालयों को बधाई देता हूँ।

8/7/19

¼ujUæ Çlg rkej½

सत्यमेव जयते

d`k'k pk/kjh
कृषि एवं किसान कल्याण
राज्य मंत्री
भारत सरकार

l ns'k

कृषि क्षेत्र में कौशल विकास की आवश्यकता महत्वपूर्ण है, क्योंकि सकल घरेलू उत्पाद योगदान में कृषि हिस्सा केवल 14 प्रतिशत है, जबकि कुल आबादी का 49 प्रतिशत और कामकाजी आबादी का 55 प्रतिशत कृषि आधारित आजीविका में लगे हुए हैं। जनसंख्या में वृद्धि के साथ खाद्य और कृषि उपज की मांग में वृद्धि हुई है। कृषि उत्पादकता को बढ़ाने के लिए कृषि और संबद्ध विषयों के क्षेत्र में कृषि स्नातकों के विशिष्ट कौशल को बढ़ाना महत्वपूर्ण है।

भारतीय कृषि अनुसंधान परिषद, नई दिल्ली द्वारा देशभर के कृषि विश्वविद्यालयों की साझेदारी के साथ अनुभवजन्य इकाई कार्यक्रम शुरू किया गया, जो अब पांचवीं डीन की समिति की रिपोर्ट के अनुसार छात्र ग्रामीण उद्यमिता जागरूकता विकास योजना (Student READY) का एक अभिन्न अंग है। यह देश में कृषि और संबद्ध विषय में कौशल विकास कार्यक्रम की दिशा में एक उत्कृष्ट कदम है। छात्र अपनी रुचि के विभिन्न क्षेत्रों में ज्ञान और विशेषज्ञता हासिल करते हैं और उन्हें उद्यमी बनने के लिए प्रशिक्षित किया जाता है। मैं इस कार्यक्रम की सफलता की कामना करता हूँ और उम्मीद करता हूँ कि कृषि छात्र नौकरी तलाशने के बजाय नौकरी प्रदाता बनेंगे।

'kqHkdkeukvksa lfgrA

¼d`k'k pk/kjh½

Hkkjrh; —f"k vuqla/kku ifj"kn
Indian Council of Agricultural Research
(Ministry of Agriculture and Farmers Welfare)

Dr Trilochan Mohapatra
Secretary (DARE) and Director General (ICAR)
New Delhi, INDIA

MESSAGE

Higher agricultural education system in India has provided technically qualified human resource that played the fundamental role in radical transformation of agriculture. With time the problems confronted by agriculture changed so also a need to change the existing system for producing the desired human resource to handle the present and future challenges. The knowledge profile of graduates has to be in tune with the emerging realities and utilities of agricultural education to meet with the existing employment opportunities in the country. The agricultural education curriculum and its delivery to over reach the present and future demand of job markets prompted the concept of "Experiential Learning", which was introduced during the X plan period in the undergraduate course of agriculture and allied disciplines. Experiential learning engages students in critical thinking, problem solving and decision making in contexts that are relevant to individual and the society. This approach of learning also involves making opportunities for debriefing and consolidation of thoughts and skills through feedback, reflection, and application of ideas and skills in new situations.

"Experiential Learning" was made an integral part of the **Student READY (Rural Entrepreneurship Awareness Development Yojana)** as per the recommendations of the fifth Deans Committee. I am happy that a report on the present status of "Experiential Learning" programme implemented in various agricultural universities highlighting its impact for skill development in the field of agriculture and allied sectors is being brought out by the Agricultural Education Division, ICAR.

I hope the report would be useful and informative for all the stakeholders.

Dated the 9th July, 2019
New Delhi

(T. MOHAPATRA)

Hkkjrh; —f"k vuqla/kku ifj"kn
Indian Council of Agricultural Research
(Ministry of Agriculture and Farmers Welfare)

Dr Narendra Singh Rathore
Deputy Director General
Agricultural Education Division
New Delhi, INDIA

The emerging job markets suggests that employment in public sector is declining, however jobs in private industrial agriculture sectors (production, processing and value addition in all its aspects) and service sectors (input supply, banking, consultancy, IT and advisories etc.) are rising. This development demands that agricultural graduates should be equipped with the desired knowledge, skills, ability and experience in industrial field for employability in the fast expanding agro-industry coupled with entrepreneurial spirit to set up an enterprise independently on production agriculture and advisory services. Thus agricultural graduates needs to become professional who not only possess confidence and competence to analyze an agricultural problem but also able to suggest solutions to alleviate it. It is in pursuit of Hands-on-training, the Experiential Learning Programme (ELP) was launched during the X Plan. The agricultural universities were also provided a detailed conceptual framework, instructions and guidelines for establishing the Experiential Learning Units (ELU) so that they are able to take necessary steps towards conceptualizing, planning, implementation, monitoring and continued improvement for sustainable success of the programme.

The Fifth Deans committee recommended a one year programme **"Student READY (Rural Entrepreneurship Awareness Development Yojana)"** for the undergraduate courses in all the disciplines of agricultural and allied sciences and essentially experiential learning with business mode was made an integral part of the programme. It is expected agricultural graduates should become job provider rather than job seeker. This report of the present status of Experiential Learning programme (ELP) provides information on the preparedness of agricultural graduates for self employability through entrepreneurship development. We invite suggestions from various stakeholders for further scaling up of the Experiential Learning Programme in undergraduate education in India.

(Dr Narendra S. Rathore)

Hkkjrh; —f"k vuqlaèkku ifj"kn
Indian Council of Agricultural Research
(Ministry of Agriculture and Farmers Welfare)

Dr. Punyavrat Suvimelendu Pandey
Assistant Director General (EP&HS)
Agricultural Education Division
New Delhi, INDIA

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

Experiential Learning is an integrated learning system to promote professional skills and knowledge through hands on experience and personal involvement. The programme provides to explore and discover their own potential, confidence building and ability to work in project mode enhancing enterprise management capabilities among the undergraduate students.

Experiential Learning is one of the integral components of the Student READY (Rural Entrepreneurship Awareness Development Yojana) programme as per V Deans Committee course curriculum recommendations. Indian Council of Agricultural Research, New Delhi has supported the establishment of 465 Experiential Learning Units in various agricultural universities across the country. Several students after obtaining the skill from EL programme have started their own enterprise and presently, giving employment to many.

The **Experiential Learning Programme: Accomplishment** is a compilation of present status of the programme since its inception. The document provides the genesis and growth of the programme over the years, major achievements, success stories of the student entrepreneurs in agriculture sector, and way forward. It is aimed to further scale up this programme by way of collaboration with partners from industries and other departments. Innovative ideas and suggestions to strengthen the Experiential Learning programme are welcome.

(P S Pandey)

Contents

		Page No.
1.	Introduction	1
2.	Experiential Learning Programme	2
3.	Growth of Experiential Learning Units	4
4.	Statewise status of Experiential Learning Programme	9-50
	Andhra Pradesh	
	Assam	
	Bihar	
	Chhattisgarh	
	Gujarat	
	Himachal Pradesh	
	Haryana	
	Jammu and Kashmir	
	Jharkhand	
	Karnataka	
	Kerala	
	Maharashtra	
	Madhya Pradesh	
	Nagaland	
	Odhisa	
	Punjab	
	Rajasthan	
	Tamil Nadu	
	Telangana	
	Uttarakhand	
	Uttar Pradesh	
	West Bengal	
5.	Photographs of activities under ELP	51
6.	Experiential Learning Units: Major Areas	55
7.	Success Stories of Student Entrepreneurs	61

Introduction

The Indian Council of Agricultural Research (ICAR) is an autonomous organisation under the Department of Agricultural Research and Education (DARE), Ministry of Agriculture and Farmers Welfare, Government of India and the largest National Agricultural Research and Education System (NARES) in the world. The ICAR is the apex body for planning, coordinating, guiding, managing and undertaking research, education and extension in agriculture and allied sciences in the country. The ICAR played a major role in developing agriculturally relevant human resource by promoting excellence and strives for maintaining and upgrading quality and relevance in higher agricultural education through partnership with the Agricultural Universities in the country.

The fifth Deans committee recommendation has brought out several new reforms in the quality and relevance of agricultural education by articulating the knowledge and skills needed among the graduates and recommended curricula reforms and innovations for enhancing employability and entrepreneurship thereby enabling our graduates to become **job-providers rather than job-seekers**.

The Student Rural Entrepreneurship Awareness Development Yojna (READY) is one such initiative where the undergraduate students shall undergo one-year training in their respective discipline. This programme has been implemented in most of the Agricultural Universities across the country. Student READY programme is introduced as integral part for one complete year in the last year of the degree programme for undergraduate education in the disciplines of Agriculture, Agriculture Engineering, Biotechnology, Community Science (Home Science), Dairy Technology, Food Technology, Forestry, Fisheries, Horticulture and Sericulture.

The student READY program consists of five components, which are interactive and are conceptualized for building skills in project development and execution, decision- making, individual and team coordination, approach to problem solving, accounting, quality control, marketing and resolving conflicts, etc. with end to end approach. The Student READY consists of five components namely:

(i) Experiential Learning – Business Mode

(ii) Experiential Learning – Hands on Training (Skill Development) without business mode

(iii) Rural Awareness Work Experience (RAWE)

(iv) In Plant Training/ Industrial attachment/ Internship

(v) Student Project

Experiential Learning Programme

Experiential Learning programme is a major component of Student Rural Entrepreneurship Awareness Development Yojna (READY). The word 'experiential' essentially means that learning and development are achieved through personally determined experience and involvement, rather than on received teaching or training, typically in group, by observation, study of theory or hypothesis, and bring in innovation or some other transfer of skills or knowledge. Experiential learning is a business curriculum-related endeavour which is interactive and integrated learning system, which aims for promoting professional skills and knowledge through hands on training/experience, building confidence and ability to work in project mode and acquire enterprise management capabilities among the undergraduate students. The programme has been designed with carefully calibrated activities which will help the participants to explore and discover their own potential and both activities and facilitation play a critical role in enhancing team performance. It is towards **"Earning while learning"** and provides the students an excellent opportunity to develop analytical, entrepreneurial skills and knowledge through meaningful hands on experience, confidence in their ability to design and execute project work. The objectives of Experiential Leaning programme are:

- To promote professional skills and knowledge through meaningful hands on experience.
- To build confidence and to work in project mode.
- To acquire enterprise management capabilities.

The experiential learning programme (ELP) is offered for 180 days (one semester) period in the final year of the undergraduate programme. As the programme is enterprise oriented, students and faculty are expected to attend the activities of the enterprise even on institutional holidays with total commitment, and without any time limit or restriction of working hours for ELP. The Experiential Learning programme runs for full year by making two groups and rotating activities of the final year in the two groups.

The minimum attendance required for this programme is 85%. The attendance of a student is maintained at the EL unit. The attendance particulars are communicated to the Chief Executive Officer by the Manager of the EL unit every week. The students will be eligible for the final evaluation of EL only when the attendance requirement is met with.

It is necessary requirement for each student to get registered under EL that he/she has completed all the courses successfully. No student to be allowed to take up the EL programme with backlog/ repeat courses. The assignment/allotment of the EL programme shall be based on merit of the student. The programme is offered in two modes.

Experiential leaning as business mode: The programme has end to end approach with carefully calibrated activities which help the students to explore and discover their own potential and enhance team performance. This programme provides the students an excellent opportunity to develop analytical and entrepreneurial skills and knowledge, confidence in their ability to design and execute an entrepreneurial project through meaningful hands on experience. This is a step towards **"Earn while Learn"** concept.

A systematic approach for earning and gaining practical knowledge including skill (how to do) and entrepreneurship development (starting a business setup) has been included in this component. In this students are gaining knowledge for converting research output into business outcome. It is expected that at the end of this exercise students will gain confidence for running any enterprise independently.

Experiential leaning as hands-on training (HoT)/ Skill development without business mode: Hands-on training aims to make conditions as realistic as possible towards gaining knowledge and skill for doing the different productive on farm operations. The students are provided opportunities to become skilled in the identified practices/methods. The students strengthen their existing skills and also learn new techniques. A number of experiential learning units are also being used for hands on training under the skill development mode. The major emphasis under EL as skill development, is made to understand operations of any business setup and in actual conditions students are exposed with all unit operations of the system and learn appropriate remedial measures to repair and maintain the system.

Growth of Experiential Learning Units

During the tenth five-year plan, ICAR initiated Experiential Learning as a new programme, which involves setting up of instructional farms for production (crop, animal and fish etc.), model plants for food processing and value addition for product diversification and engineering workshops for manufacturing, operation and maintenance of farm machinery and equipment. The major intent of the scheme is to backstop student involvement in learning in the life size environment of experimental farms, model plants and engineering workshops. Once the multi-learning facilities are developed, it will be mandatory for the undergraduate students to take practical training in these areas of employable vocations. The training programmes would also involve lectures by subject matter specialists on technology, communication skills, business management, quality standards and government policies on agriculture and rural development programmes and credit institutions. This way the training will infuse and strengthen conceptual learning with technologically advanced practices for field applications.

The training programme would lean heavily on practice in technologically advanced methodologies for production of agricultural crops, fruits, vegetables, ornamental, medicinal,

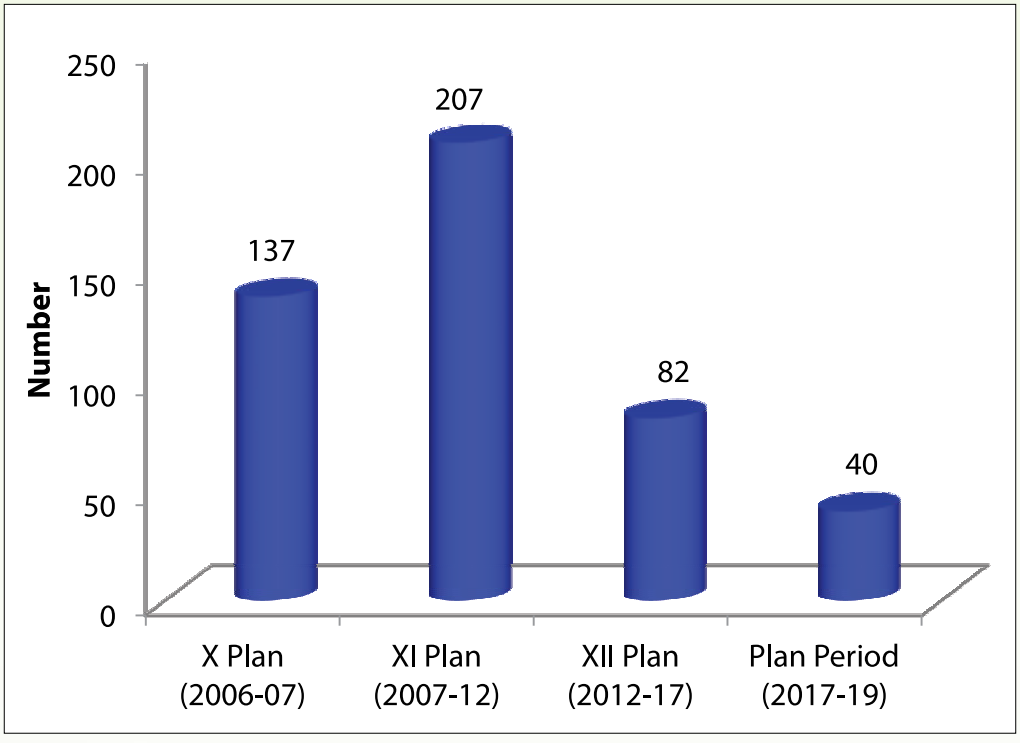


Figure 1: Number of EL units established during various plan periods

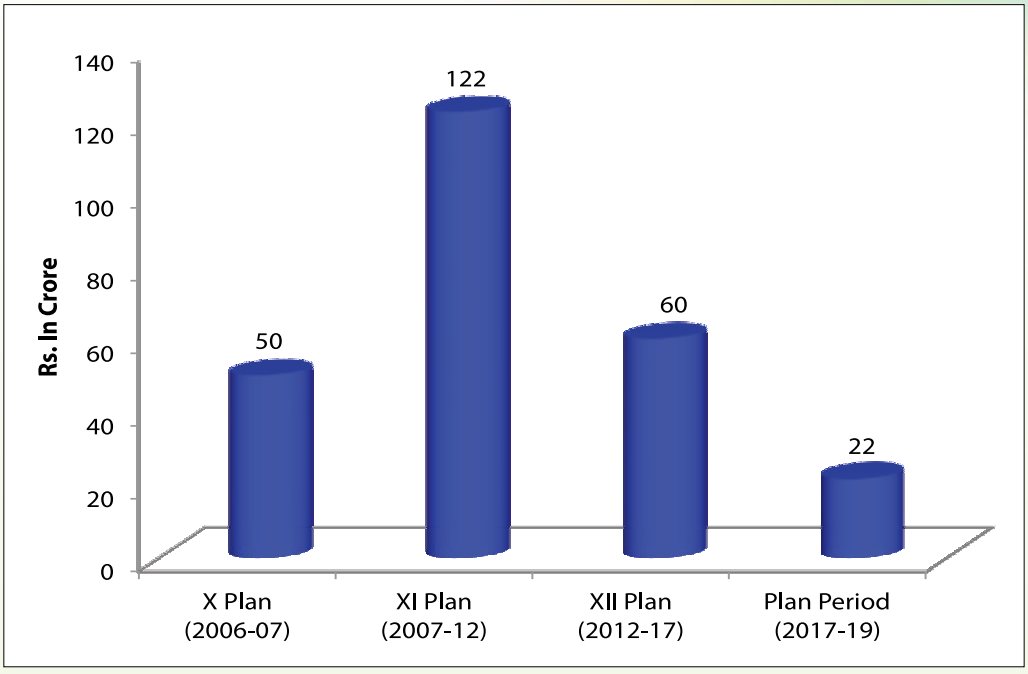


Figure 2: Allocated budget for EL units over various plan periods

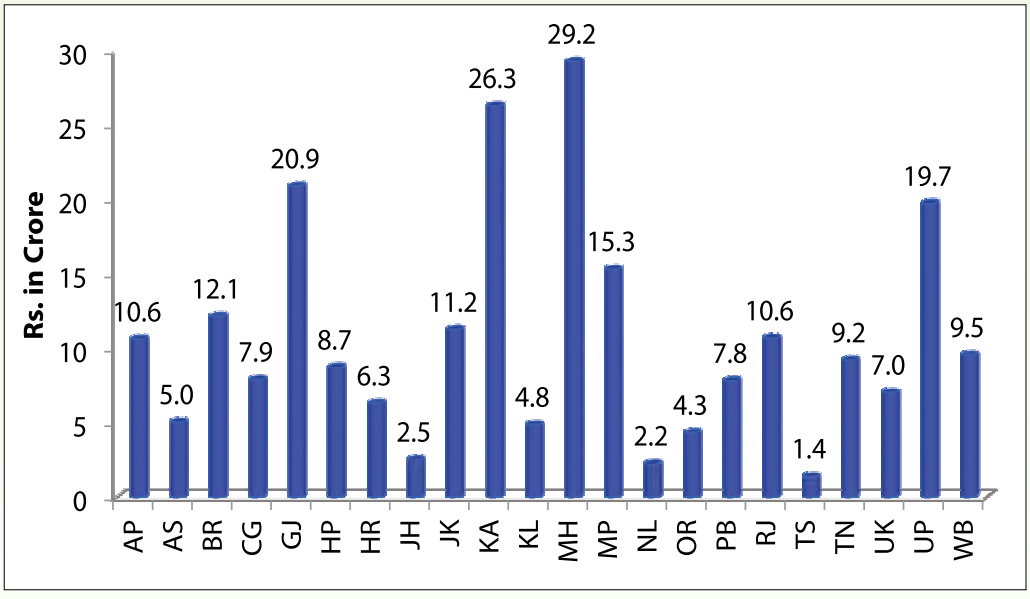


Figure 3. State-wise budget for EL units

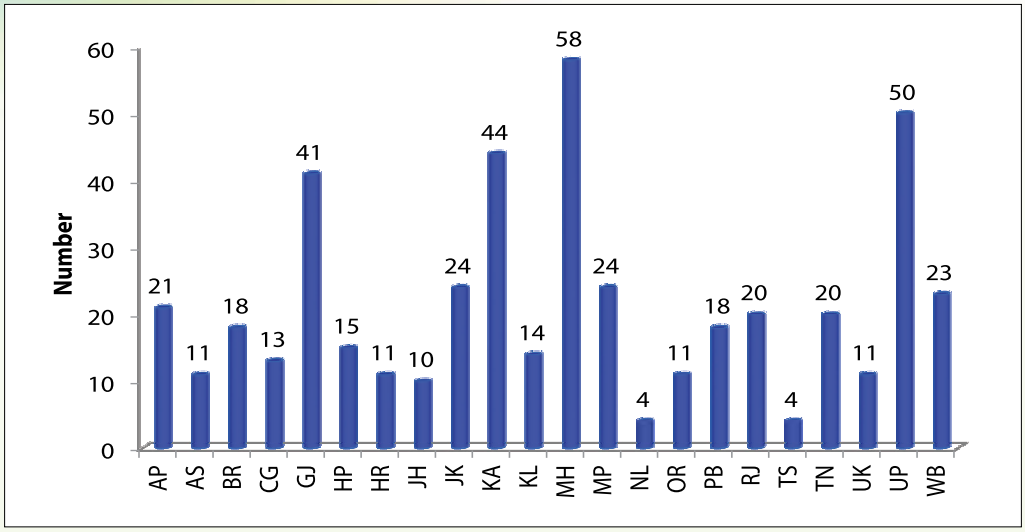


Figure 4: State-wise number total number of EL units

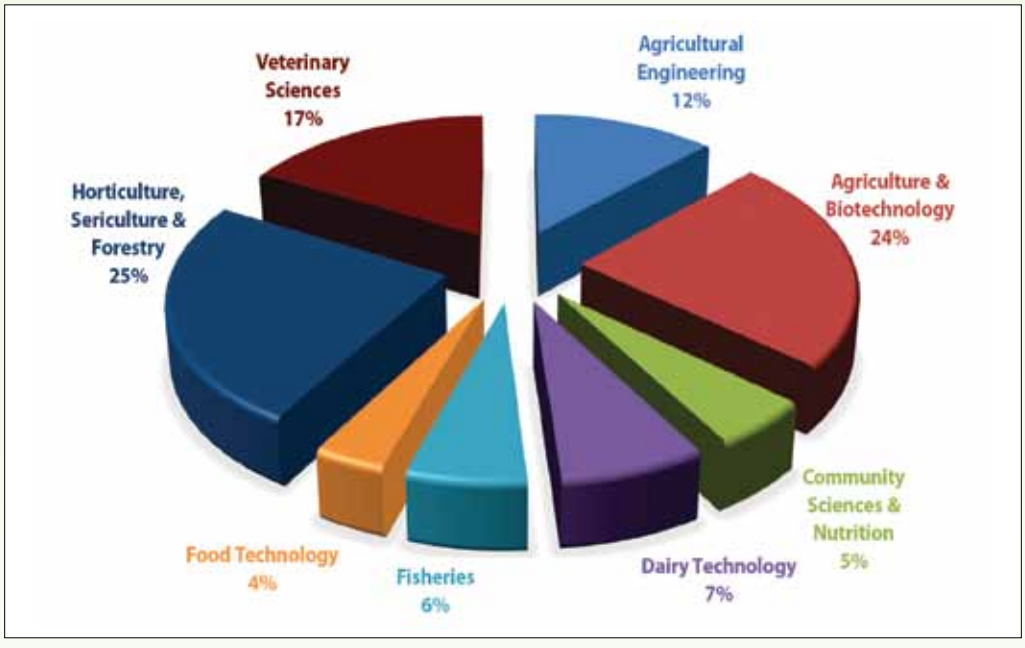


Figure 5. Discipline-wise distribution of EL units across Agricultural Universities (in percentage)

aromatic, forest plants including fibre and fuel crops etc. This shall also engage students in integrated farming systems consisting of production of fish, poultry, livestock for milk, eggs, meat and wool, and processing for value added products etc. The other avenues of practical training would include internships in private industrial houses, technology transfer and rural development programmes. The practical exposure would also involve students in preparation of project feasibility and implementation reports, proper methods and procedures for maintenance

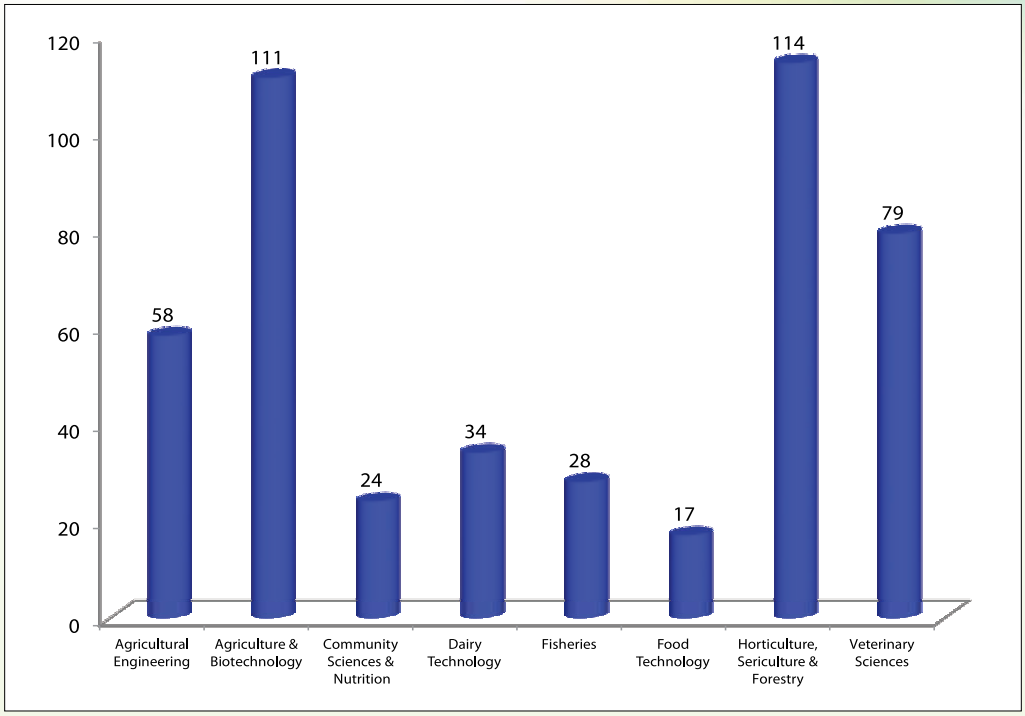


Figure 6. Discipline-wise distribution of EL units across the Agricultural Universities

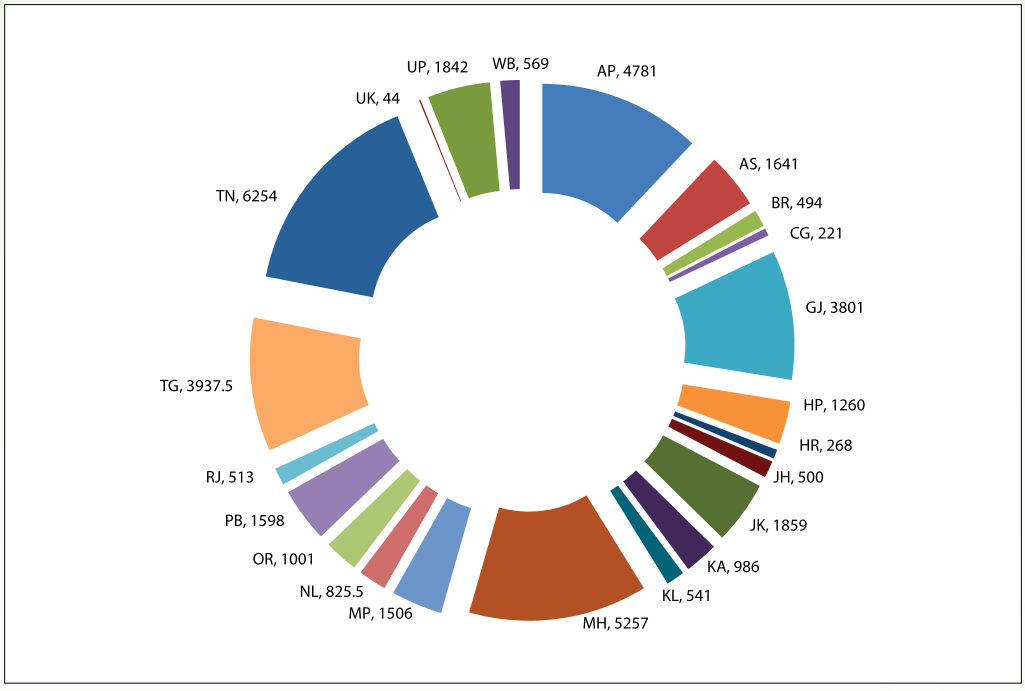


Figure 7. State-wise depiction of students trained in EL unit

of records including inventory of materials, maintenance of accounts, and management of the enterprise etc.

The experiential learning programme is finishing course for undergraduate degree and will be offered for one semester in the final year. As the programme is enterprise oriented, students and faculty are expected to attend the activities of the enterprise even on institutional holidays with total commitment, and without any time limit or restriction of working hours for EL unit. The Experiential Learning Programme shall be run for full year by making two groups and rotating activities of the final year in the groups.

Since its inception, the programme has come a long way, with 465 EL units sponsored by the ICAR in addition to several others by the state government as per the curriculum requirements. During the X plan a total of 137 EL units were sanctioned, 207 during XI plan, 82 EL units were sanctioned during the XII plan period. During 2017-19 the number increased to 465. The selection of the new experiential learning units are done by a technical committee as per the approved guidelines.

The growth and budget allocation of Experiential learning units over three plan period given in Figure 1,2. Figure 3 depicts the state-wise budget share for ICAR sponsored EL units. The state wise and discipline wise number of EL units is given in figure 4, 5 and 6 respectively and Figure 7 illustrates state wise number of students trained in these EL units.

State wise status of Experiential Learning Programme

भाकृअनुप
ICAR

ANDHRA PRADESH

Acharya N.G. Ranga Agricultural University, Guntur

The students were trained for breeder seed production of groundnut, production and marketing of mushroom, Green house production technology, Training in Home Science sector, Production technology and value addition, Production of beneficial insects and other organisms, Preserved fruit and vegetable production, Remote sensing, Geographical information system, Land use planning, Processing of milk and milk products. The students acquired knowledge in processing, handling and marketing of milk products, procurement of raw materials, preparation of the technical plan, business plan and marketing plan. Two crops, sweet corn (Variety: Sugar 75) and baby corn (Local variety) were chosen and students completed all activities from sowing to harvest including marketing. Students were involved in the application of herbicides, weeding and picking of the cobs. They learned foundation seed production in black-gram variety TBG 104. *Bombyx mori* was reared in the insectary premises. The students have got the experience of cultivation of short duration and high value corn crops and could earn profits. The students learnt that growing of short duration pulse crops for seed production is highly profitable and they were able to cultivate the blackgram crop and undertake all the operations including marketing. They successfully learnt rearing of silk worm, harvesting of cocoons and its marketing. The students were successful in Trichocard preparation and marketing to the farmers. The marketing was favoured by various government agencies. Several products were manufactured by students i.e. Ice-cream, *kulfi*, tricoloured *kulfi*, flavoured milk, *basundi*, *khoa*, *paneer*, soy

incorporated paneer, *rabri,* etc. During the year 2016-18 a total of 1294 students were trained under the above experiential learning units and till date and a revenue of approx. Rs 67.19 lakhs was generated and profit shared among the students.

Dr. YSR Horticultural University, Venkataramannagudem

The students underwent rigorous training in Post-harvest technology and value addition, Floriculture and landscape gardening, Nursery production and management, Protected cultivation of high value crops, Processing of fruit and vegetables for value addition, Protected cultivation of high value horticultural crops, Commercial horticulture, Dehydration of fruits and vegetables etc. They were trained for production of quality planting material of fruit crops, preparation of value-added product, poly house cultivation and production of high value crops like capsicum, cucumber, tomato, hybrid tea roses, carnations, gerbera, gladiolus and its sale in local markets. During the year 2016-18 around 190 students were trained under the above experiential learning units and a revenue of approx. Rs 81.045 lakhs was generated and profit shared among the students.

Sri Venkateshwara Veterinary University, Tirupati

The students were trained in Veterinary polyclinic and disease diagnostic centre, Fish Post Harvest Technology, Processing of Milk and Milk Products. During the year 2016-18 a total of 196 students were trained under the above experiential learning units and till date and a revenue of approx. Rs 4.37 lakhs was generated and profit shared among the students. The university wise and discipline wise number of EL units established in Andhra Pradesh is given in figure 8a, 8b.

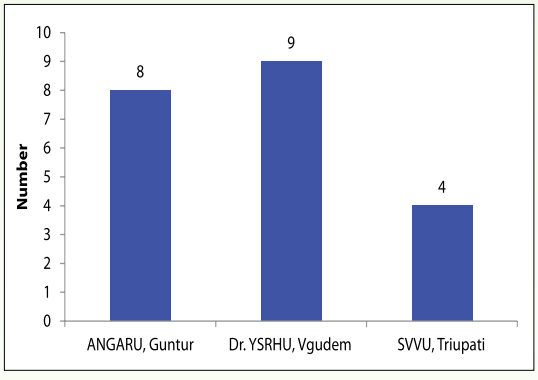


Figure 8a: University wise number of EL units in Andhra Pradesh

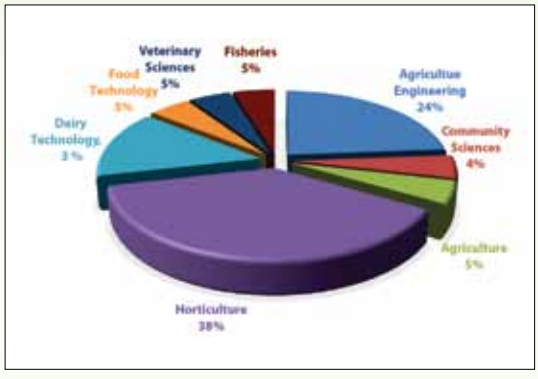


Figure 8b: Discipline wise number of EL units in Andhra Pradesh

ASSAM

Assam Agricultural University, Jorhat

The students were trained in production of Ornamental, Medicinal and Aromatic plants, Agro processing of cereals, pulses and oil seeds, Post harvest technology and processing for value addition, Bakery and confectionaries for entrepreneurial development, Pig production for profitable enterprise, Fish production technology, Hatchery management and Commercial broiler production, Production of bio-fertilizers, bio-pesticides and bio-agents, Commercial horticulture, Production of quality carp seed, Production and marketing of tea plants and processed green tea. During the year 2016-18, 441 students were trained under the above experiential learning units. Many students have already started their own enterprise in agriculture and allied sectors. The total number and discipline wise number of EL units running in Assam Agricultural University, Jorhat is given in figure 9a, 9b.

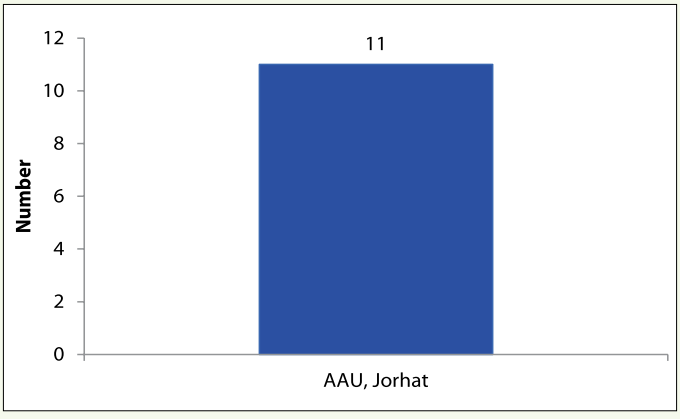


Figure 9a: Number of EL units in Assam

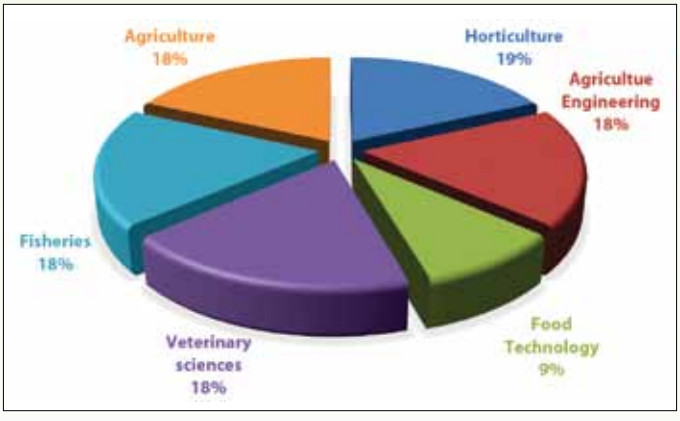


Figure 9a: Number of EL units in Assam

BIHAR

Bihar Agricultural University, Sabour

The students were trained in Experiential dairy plant, Mushroom production, Commercial horticulture, Hi-tech protected cultivation of horticultural crops, Hands on training for critical care unit, Processing of fruits and vegetables for value addition, Strengthening and upgradation of TVCC unit for pet animal, Processing and preservation of fruits and vegetables, Enterprise management capability through makhana (*Euryale ferox* Salib) production system management, Processing of tomato for value addition etc. Nursery plants of fruit crops such as mango grafts of different varieties, air layering and wedge grafting of guava and seedlings of vegetable and ornamental plants were prepared by the students. During 2016-18 around 273 students were trained under the above experiential learning units and a revenue of approx. Rs 2.61 lakhs was generated and profit shared among the students.

Dr Rajendra Prasad Central Agricultural University, Pusa (Samastipur)

The students were trained in Bee-keeping and honey production, Processing and product development of maize, Fruits and vegetables processing and preservation, Post-harvest management and value addition of mushroom, Teaching and learning materials for early childhood education, Aqua farming, Production technology for biofertilizer. During 2016-17 and 2017-18 a total of 60 and 63 students were trained under the above experiential learning units and revenue of approx. Rs 2.91 lakhs was generated and profit shared among the students. The university wise and discipline wise total number of EL units running in different universities of Bihar is given in figure 10a, 10b.

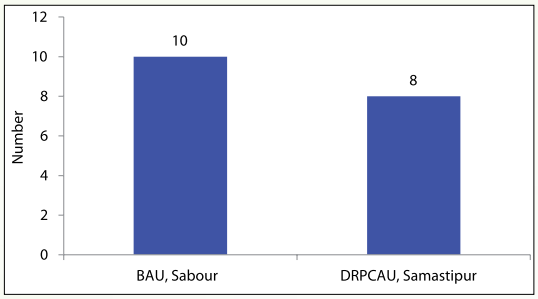


Figure 10 a: University wise number of EL units in Bihar

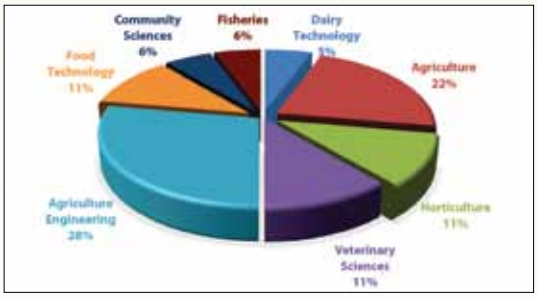


Figure 10 b: Discipline wise number of EL units in Bihar

CHHATTISGARH

Chhattisgarh Kamdhenu Vishwavidyalaya, Durg

The students were trained in Veterinary polyclinic and disease diagnostic center, Processing of milk and milk products, Fresh water aqua culture, Seed production in fisheries in Indian major carps (Catla, Rohu, Mrigal), Exotic carps, Catfish (Magur), Ornamental fish production and rearing, Management of nursery ponds, Aquarium fabrication etc. During 2016-17 and 2017-18 a total of 59 and 61 students were trained under the above experiential learning units. Many students have already started their own enterprise in agriculture and allied sectors.

Indira Gandhi Krishi Vishwavidyalaya, Raipur

The students were trained in Hi-tech nursery for horticultural crops, Bio-agents production, Value added dairy products and fermented milk products, Agro Processing, Commercial apiculture, Establishment of food processing unit and production of value added products of selected fruit and vegetable crops, Protected cultivation of high value horticulture crops, Production of bio agents, Bio pesticides and Bio fertilizers etc. During 2016-17 and 2017-18 around 641 and 297 students were trained under the above experiential learning units and till date and revenue of approx. Rs 1.38 lakhs was generated and profit shared among the students. Total number university and discipline wise of EL units in Chhattisgarh is given in figure 11a and 11b.

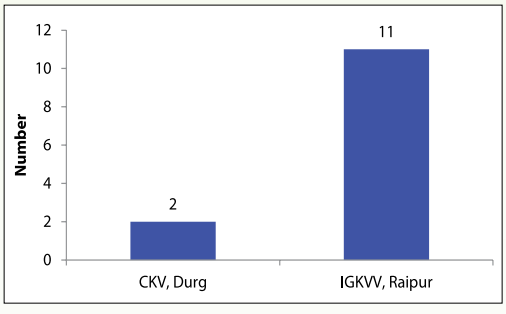


Figure 11a: University wise number of EL units in Chhattisgarh

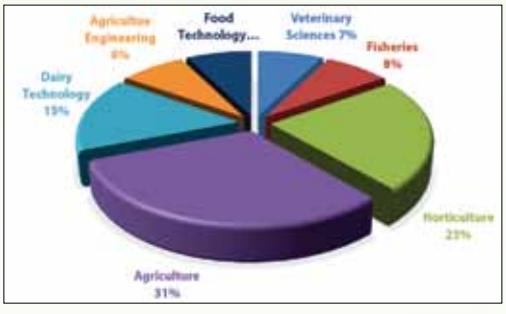


Figure 11b: Discipline wise number of EL units in Chhattisgarh

GUJARAT

Anand Agricultural University, Anand

The students were trained in Apiary and apiculture, Bio-pesticides, Commercial production, Cultivation processing and marketing of medicinal and aromatic plants, Hi tech Floriculture, Value addition in Anola, Mango, Tomato and Kagizilime, Livestock and Poultry feed manufacturing, Dairy Processing, Protective cultivation for high-tech horticulture, Processing of food crops for value addition, Entrepreneurship oriented broiler production unit, Male weaner goats rearing and selling, Dairy processing etc. They provided consultancy to farmers for cultivation of aromatic and medicinal plants (Tulsi, Palmrosa, Lemon grass, Kalmegh, Dodi, Ashwagandha, Shankhpunshpi, Kalijiri), Marketing of mixed ration and concentrate mixture for cattle, buffalo, sheep and goats. The students were given training to acquire enterprise management capabilities including skills for project development and execution, accountancy, marketing etc. The students were actively involved in extraction, processing, packaging and selling of honey. During 2016-17 and 2017-18 a total of 457 and 472 students were trained under the above experiential learning units. Many students have already started their own enterprise in agriculture and allied sectors.

Junagadh Agricultural University (JAU), Junagadh

The students were trained in agricultural machinery management, Custom hiring and mobile workshop, Designing, planning and evaluation of watershed, Production and management of alternative/ renewable energy source, Mushroom production, Bio-agents and vermicompost production and processing,

Seafood processing for value added products and by products, Agro processing centre for value addition and technical support services, Microbial pesticides production, Production of ornamental fish, Broiler and layer production, Clinical complex, Protected cultivation of high valued horticultural crops, Production of Indian major carp fingerlings, Pet pups production, pet spa, pet boarding, Quality seed production of field crops.

The students were also trained in Technology for mass production of bio agents, Oyster mushroom cultivation utilizing the agricultural waste, Rearing chicks from day old to growing stage for different poultry species such as ducks, geese, emu, turkey and desi chicken breeds. Products developed were Kesar Mango pulp, "Sawaj", fish and shrimp products i.e. pickles (Pouch pack, bottle pack), fish kurure, varieties of dry salted fish/shellfish (Pouch pack, vacuum pack, jar pack, Tray pack etc.), Ready to eat value added cooked seafood (Cutlet, burger, ball, finger, snacks and fast seafood etc.), Fish and shrimp pickle (Pouch pack, bottle pack), Varieties of dry salted fish, shellfish, Entomopathogenic fungi like Beauveriabassiana, Metarhiziumanisopliae, viruses like HaNPV, SlNPV, Pheromone traps and lures of pink bollworm, brinjal shoot and fruit borer and fruit fly etc. During 2016-17 and 2017-18 a total of 546 and 611 students were trained under the above experiential learning units and a revenue of approx. Rs 112.34 lakhs was generated and profit shared among the students. Many students have already started their own enterprise in agriculture and allied sectors.

Navsari Agricultural University (NAU), Navsari

The students were trained in Dehydrated onion processing and packaging unit for value addition, Plant tissue culture, Commercial horticulture, Bio-fertilizer production, Commercial apiculture, Broiler and layer production, Goat production and rearing, Development of quality planting materials in forestry, Enriched vermicompost production, Quality planting material production in horticultural crops, Agricultural waste management through vermicompost etc. During 2016-17 and 2017-18 around 431 and 304 students were trained under the above experiential learning units and revenue of approx. Rs 31.27 lakhs was generated and profit shared among the students.

Sardarkrushinagar Dantiwada Agricultural University (SDAU), Dantiwada

The students were trained in value added product of Anola fruits, Soil water analysis and plant clinic, Commercial bakery unit, Establishment of multimedia and graphic unit for designing and production of information materials, Protected cultivation of high value vegetable crops etc. During 2016-18 a total of 761 students were trained under the above experiential learning units. Total number of EL units university and discipline wise in Gujarat is given in figure 12a, 12b.

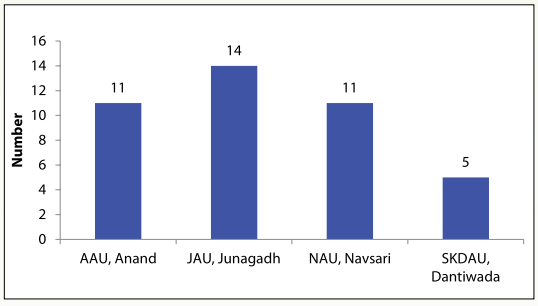


Figure 12 a: University wise number of EL units in Gujarat

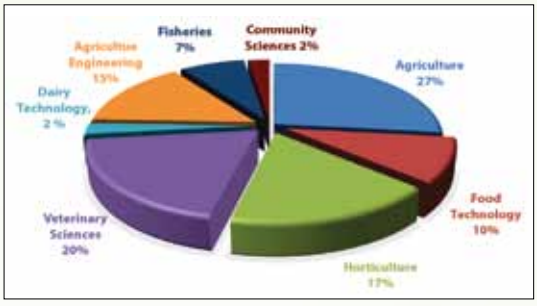


Figure 12 b: Discipline wise number of EL units in Gujrat

HIMACHAL PRADESH

Chaudhary Sarwan Kuman Himachal Pradesh Krishi Vishvavidyalaya, Palampur

The students were trained in Bakery, Confectionary, Mushroom production, Honey processing and packaging, Apparel production, Model demonstration unit for processing of milk and preparation of value added dairy products, Critical care unit, Protected cultivation of high value vegetable and flower crops in hills, Designing and development of instructional media products, Skill development of educated youth for eco-friendly bee keeping entrepreneurship, Management of vegetable and flower crops like tomato, cucumber, capsicum and rose, gerbera, respectively cultivated under greenhouse besides, ornamental pot plants as well as plant nursery aspects, Art and technique of value addition in flowers like flower arrangements and bouquets making. Event management and Floral décor were also done by the students. During 2016-17 and 2017-18 a total of 135 and 95 students were trained under the above experiential learning units and revenue of approx. Rs 10.30 lakhs was generated and profit shared among the students.

Dr Y S Parmar University of Horticulture and Forestry, Solan

The students were trained in Nursery production and management of fruit plants, Protected cultivation of vegetables and flowers, Forestry nursery production, Commercial floriculture, Commercial horticulture. They were trained in processing of fruits and vegetable for value addition i.e. Herbal tea, Powdered products of Ashwagandha, Triphala, Tulsi, Giloe etc, Essential oil extraction from aromatic plants. Practical training was imparted for raising nursery plants of apple through grafting, Inspection and certification, Maintenance of nursery records and sale of plants, Production and marketing of high value forest produce, Raising quality planting materials for forest regeneration. Students were imparted practical training in medicinal and aromatic plants in nursery, Cultural practices including weeding, hoeing and irrigation, Harvesting of economic plant parts and processing of various medicinal and aromatic plants.

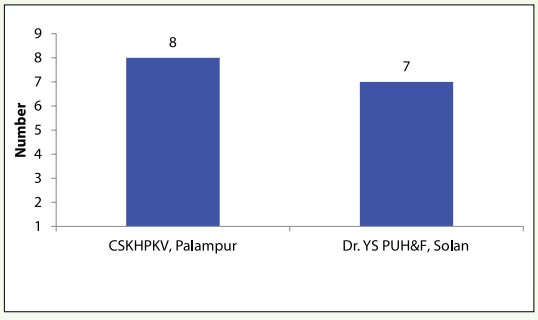


Figure 13a: University wise number of EL units in Himachal Pradesh

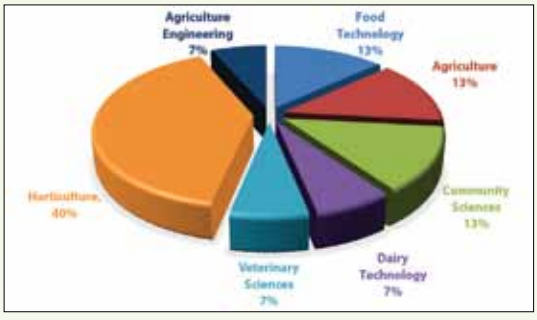


Figure 13b: Discipline wise number of EL units in Himachal Pradesh

They also learned to make Jam, RTS, drinks, squashes, pickles, herbal tea, *Aloe vera* gel, Triphala powder and essential oils. During 2016-17 and 2017-18, a total of 180 and 187 students were trained under the above experiential learning units and revenue of approx. Rs 29.33 lakhs was generated and profit shared among the students. Total number of EL units university wise and discipline wise running in Himachal Pradesh is given in figure 13a, 13b.

HARYANA

Chaudhary Charan Singh Haryana Agricultural University, Hisar

The students were trained in High tech Agriculture, Processing of fruits, vegetables and other food items, Production of medicinal and aromatic plants through tissue culture, Production of bio-fertilizers, Production and processing of meat and dairy products, Bakery and confectionery products, Livestock and poultry feed and mineral mixture production, Media lab establishment for designing and production of information material, Product designing and Digital embroidered home furnishings etc. During 2016-17 and 2017-18 a total of 375 and 426 students were trained under the above experiential learning units and revenue of approx. Rs 5.32 lakhs was generated and profit shared among the students.

Lala Lajpat Rai University of Veterinary and Animal Sciences, Hisar

The students were trained in Processing of milk and milk products, Meat and dairy products**,** Production of livestock, Poultry feed and mineral mixture etc.

National Dairy Research Institute, Karnal (ICAR Deemed University)

The students were trained in various aspects of dairy technology including milk processing and value added product manufacturing experience. The university wise and discipline wise total number of EL units in Haryana is given in figure 14a,14b.

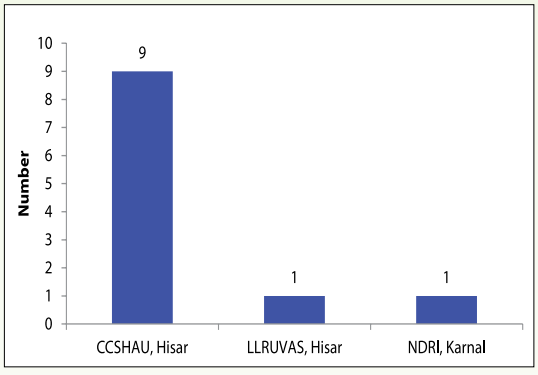


Figure 14a: University wise number of EL units in Harayana

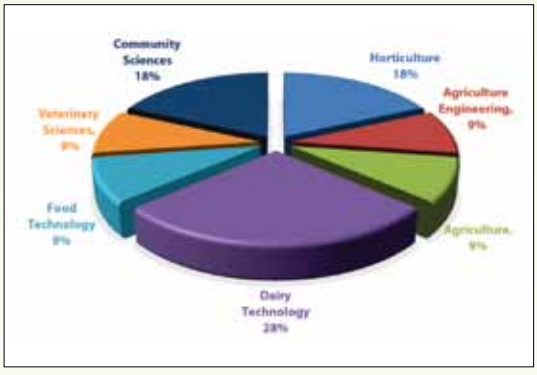


Figure 14b: Discipline wise number of EL units in Harayana

JAMMU AND KASHMIR

Sher-e-Kashmir University of Agricultural Sciences and Technology, Jammu

The students were trained in Hi-tech nursery for horticultural crops, Hands on training on Veterinary, Poultry management unit, Plant clinic, Productive insects, Mushroom cultivation and spawn production, Urban animal care clinic and pet care services, Animal feed formulation and production etc. During 2016-17 and 2017-18 a total of 53 and 59 students were trained under the above experiential learning units till date and revenue of approx. Rs 48.75 lakhs was generated and profit shared among the students.

Sher-e-Kashmir University of Agricultural Sciences and Technology, Kashmir

The students were trained in Feed mill for livestock and poultry and feed formulation, Meat and poultry products processing centre, Processing of wool and pashmina for value added products, Nursery management and micro propagation of horticulture crops, Production unit for high

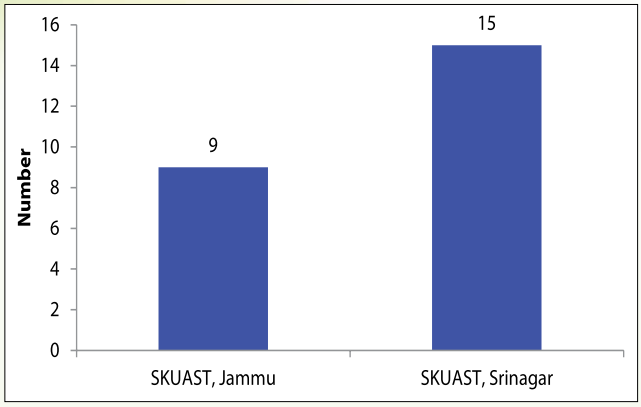


Figure 15a: University wise number of EL units in Jammu & Kashmir

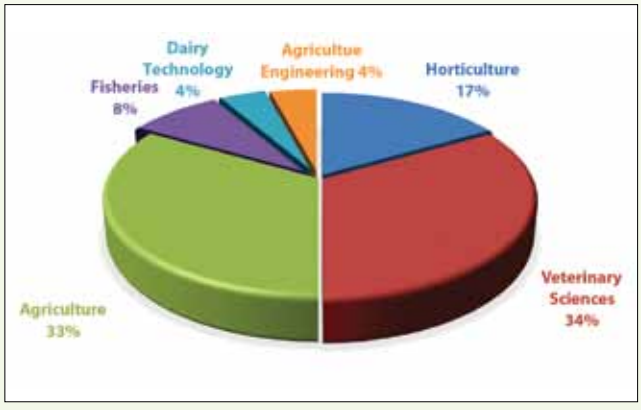


Figure 15b: Discipline wise number of EL units in Jammu & Kashmir

quality compost, Vermicompost, Biofertilizers, Fresh water aquafarming, Production and marketing of quality planting material of forest species, Commercial horticulture, Establishment of broiler and layer production centre, Ornamental fisheries unit, Processing of milk and milk products, Commercial agriculture, Seed production and processing unit, Green house fabrication unit and modernization of poly-house, Greenhouses for temperate and cold arid regions of north western Himalayas, Commercial horticulture (Fruits, vegetable, Ornamentals). They were exposed to vegetable seed production**,** Wool and pashmina processing, Paddy seed production program**,** Ornamental fisheries, Development of small tools and implements for mechanization in farming, Repair and maintenance of farm machinery and tools, Soil and water conservation measures, Installation of micro irrigation systems like drip and sprinkler, Value addition of food products through post harvest machines, design and development of machines. During 2016-17 and 2017-18 a total of 272 and 251 students were trained under the above experiential learning units and revenue of approx. Rs 404.82 lakhs was generated and profit shared among the students. Total number of EL units university and discipline wise in Jammu and Kashmir is given in figure 15a,15b.

JHARKHAND

Birsa Agricultural University, Ranchi

The students were trained in establishing Integrated farming system, Establishing model processing plant, Up-gradation of engineering workshop, Up-gradation of nurseries, Establishing technical support service centre, Model meat processing plant, Production and marketing of quality forest planting material, Strengthening of bio-control unit for mass production of bio-agent, Cultivation and processing of medicinal plants, Processing value addition and marketing of milk and milk products. The students were trained in nursery management of horticultural crops, Food processing and value addition and agro advisory etc. During 2016-17 and 2017-18 a total of 51 and 60 students were trained under the above experiential learning units. Figure 16a,16b illustrate total number of EL units established in Jharkhand.

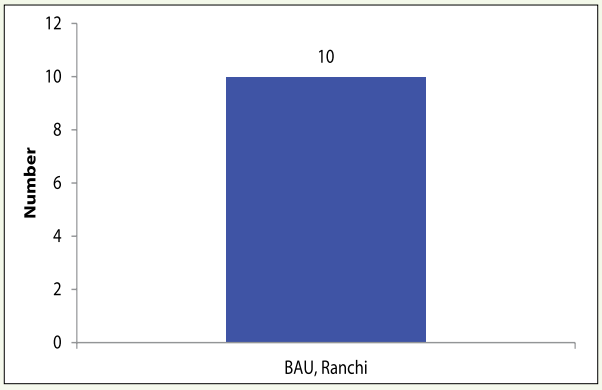


Figure 16a: Number of EL units in Jharkhand

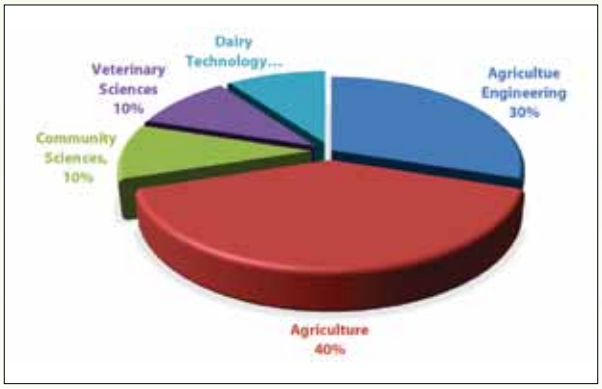


Figure 16b: Discipline wise number of EL units in Jharkhand

KARNATAKA

Karnataka Veterinary, Animal and Fisheries Sciences University, Bidar

The students were trained in the Instructional dairy plant, Model operation theatre, Aquaculture and related harvest and postharvest technologies, Fresh water aqua farming, Processing of milk and milk products, Critical care unit etc. During 2016-18 around 367 students were trained under the above experiential learning units and revenue of approx. Rs 0.84 lakhs was generated and profit shared among the students.

University of Horticultural Sciences, Shivmoga

The students were trained in Commercial horticulture, Protected cultivation of high value horticultural crops, Seed production and technology etc. They were also trained for value addition of non timber forest products, Sustainable collection and processing, Cultivation and value addition of medicinal and aromatic plants, Production and marketing of quality planting material, Apiculture, High-tech mushroom production i.e. mushroom spawn production, oyster mushroom, milky mushroom and button mushroom cultivation, Value addition of mushroom, Processing and marketing of mushroom, Popularization of skills of mushroom usage among the consumers, Production of high value vegetable crops, Onion seed production, Commercial production of flower crops. During 2016-17 and 2017-18 a total of 271 and 240 students were trained under the above experiential learning units.

University of Agricultural Sciences, Bangalore

The students were trained in Protected cultivation of high value crops, Model unit for silkworm seed, Chawki and biocraft production, Commercial production of bio-control agents.






The students were also trained in handling and use of communication gadgets, Soft program of ACROBAT, Coral draw, web page designing and AV production, Agricultural journalism, Sericulture, Floriculture and nursery production, Recycling of kitchen waste water for gardening, Mechanization for mitigating drudgery, Open cultivation of vegetables for local market, Construction of green house and poly house etc. Products development included women friendly cucle weeder cum top dressing unit, Mulberry shoot harvester, Solar energy based light trap for insects pest, Knapsack solar sprayer. The graduates are self employed in silk cocoon production, Silkworm egg production centres, Chawki rearing centres and silk reeling business, Seri by-products mainly women based entrepreneurship in bio-crafts production. During 2016-17 and 2017-18 a total of 652 and 653 students were trained under the above experiential learning units. Many students have already started their own enterprise in agriculture and allied sectors.

University of Agricultural Sciences, Dharwad

The students were trained in Composite livestock farming systems, Production of bio-fertilizers, bio-pesticides including parasites and parasitoid, Extraction of essential oils from forest plant, Garment manufacturing and value addition technology, Bio-diesel extraction and Transesterification unit, Entrepreneurship in bakery and confectionery products, Evolving teaching learning materials and kits for early childhood education programmes, Agri bio-inputs and Mushroom spawn production, Raising quality planting material for forest regeneration. They were also trained in integrated livestock farming including dairy farming, milk and dairy products, layers, broilers, disease management, Mass production of biocontrol agents and biopesticides like, *Trichoderma sp., Pseudomonas florescens, Bacillus subtilies, Paecilomyceyes* etc. including quality control, and marketing, Establishment of mother plant blocks of fruit and ornamentals and propagation techniques, Diagnosis and



integrated management of pests and diseases, Seed production, Plant tissue culture, Mushroom cultivation and sericulture, Agribusiness procedures, Organic farming etc. During 2016-18 around 1063 students were trained under the above experiential learning units and revenue of approx. Rs 4.38 lakhs was generated and profit shared among the students. Many students have already started their own enterprise in agriculture and allied sectors.


University of Agricultural Sciences, Raichur

The students were trained in Production and processing and value addition for fruits and vegetables, Plant health clinic, Custom hiring package from farm equipments, Entrepreneurship centre for bio inputs, Commercial horticulture, Commercial agriculture, Seed production and technology. They were also trained in Production of bio-pesticides, Bio-fertilizers and vermiculture, Production technology of various bio-inputs, Agri business activities. Products developed included Trichoderma, Pseudomonas, Phosphate solubilising bacteria, Vermicompost, NPV, Papaya jam, Pineapple squash, Fig fruit jam, Mango leather, Dehydrated fig, Fig fruit leather, Fig and sapota candy, Dehydrated tomato powder etc. and were marketed by students. During 2016-17 and 2017-18 a total of 232 and 285 students were trained under the above experiential learning units and revenue of approx. Rs 34.65 lakhs was generated and profit shared among the students. Many students have already started their own enterprise in agriculture and allied sectors.

University of Agricultural Sciences, Bagalkot

The students were trained in Post-harvest technology and value addition of fruits and vegetable, Protected cultivation of high value horticultural and vegetable crops, Commercial horticulture, Biofertilizers and biopesticides, Processing of horticulture produce for value

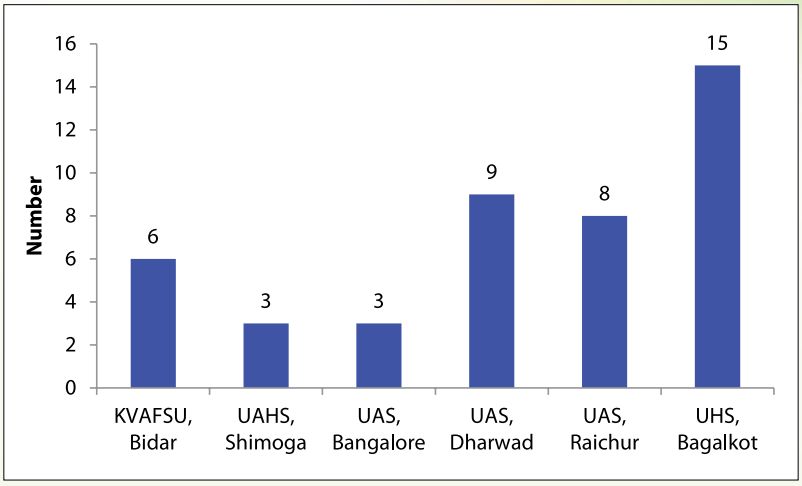


Figure 17a: University wise number of EL units in Karnataka

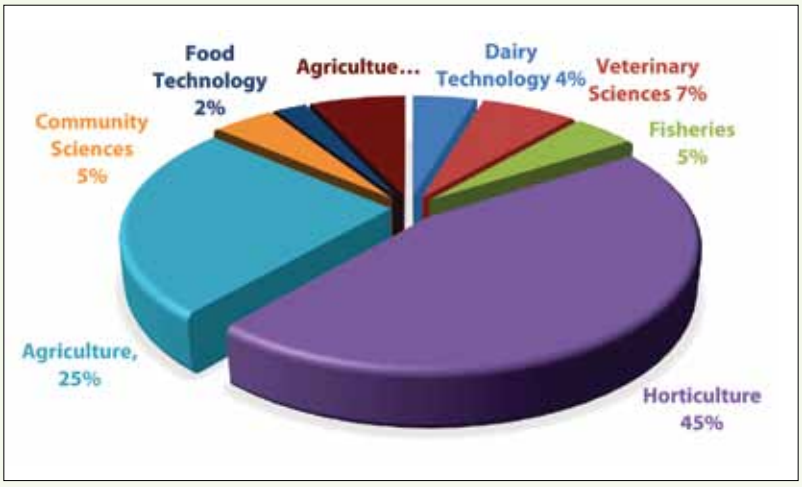


Figure 17b: Discipline wise number of EL units in Karnataka

addition. They were trained in cultivation of High value fruit crops viz., mango, Jamun, lime, guava, custard apple, jackfruit, west indian cherry, vegetables and ornamentals etc, Agro processing and value addition**,** Production of bioagents and biofertilizers etc. During 2016-17 and 2017-18 a total of 400 and 434 students were trained under the above experiential learning units. Total number of EL units established university and discipline wise in Karnataka is given in figure 17a, 17b.

KERALA

Kerala Agricultural University, Trissur

The students were trained in Production of bio-control agents, Tissue culture, Commercial production and quality assurance in horticulture, Maintenance and custom hiring of farm machinery and equipments, Specialization in post-harvest horticulture and processing, Protected cultivation of high value horticultural crops, Quality organic input production and Rapid composting technologies, High tech tree nursery and wood processing unit etc. During 2016-18 around 1061 students were trained under the above experiential learning units and revenue of approx. Rs 2.36 lakhs was generated and profit shared among the students. Many students have already started their own enterprise in agriculture and allied sectors.

Kerala University of Fisheries and Ocean studies, Kochi

The students were trained in entrepreneurship skill for post harvest technology in sea food. Several sea food products marketed under trade name MYTHRI under this program.

Kerala Veterinary and Animal Sciences University, Wayanand

The students were trained in Veterinary polyclinic and Disease diagnostic center, Milk processing and value addition, Broiler and layer production, Critical care unit. They were trained in treatment of animals in critical care centre**,** Preparation of innovative dairy products. During 2016-18 around 190 students were trained under the above experiential learning units and revenue of approx. Rs 23.28 lakhs was generated and profit shared among the students. Figure 18a,18b illustrate total EL units established universities and discipline wise in Kerala.

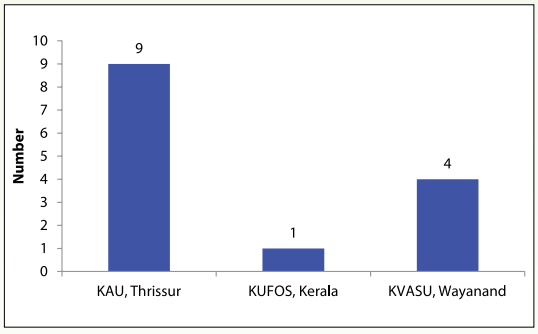


Figure 18a: University wise number of EL units in Kerala

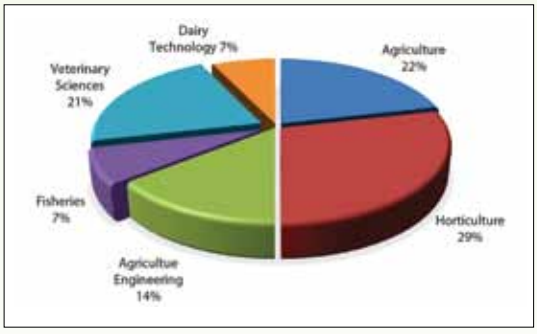


Figure 18b: Discipline wise number of EL units in Kerala

MAHARASHTRA

Dr. Balasaheb Sawant Sawant Konkan Krishi Vidyapeeth, Dapoli

The students were trained in Post harvest technology for cashew entrepreneurs, Mechanization of rice farming, Mushroom technology, Floriculture and landscape gardening, Commercial bakery unit, Aqua-farming, Shrimp hatchery and farming. They were also trained for high value bakery products etc. During 2016-17 and 2017-18 a total of 243 and 307 students were trained under the above experiential learning units and revenue of approx. Rs 32.03 lakhs was generated and profit shared among the students.

Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola

The students were trained in Production of bio-fertilizers, bio-pesticides including parasites, Soil-water analysis and plant clinic, Processing and value addition of horticultural crops, Processing unit on cereals and pulses, Nursery management of horticultural crops, Cultivation and processing of medicinal plants, Commercial floriculture, Protected cultivation of horticultural crops. They were trained for Processing and value addition of food and horticultural crop, Mass production of biofertiliser and






biopesticides, Commercial production and nursery management. During 2016-17 and 2017-18 around 482 and 529 students were trained under the above experiential learning units and revenue of approx. Rs 8.93 lakhs was generated and profit shared among the students.

Central Institute of Fisheries Education, Mumbai (ICAR Deemed University)

The students were trained in various aspects of processing and production of high value and low value fishes.

Maharashtra Animal and Fisheries Sciences University, Nagpur

The students were trained in Construction of veterinary polyclinic and disease diagnostic center, Instructional dairy plant, Aqua farming, Entrepreneurship in broiler and layer production, Critical care unit, Processing of milk and milk products. They were also trained in healthcare management in diverse clinical cases of pet animals, Large animals and wildlife, Management of trauma cases due road traffic accidents, acute and chronic renal failure, ascites, disseminated intravascular coagulation, dilated cardiomyopathy, uraemic peritonitis, prostatic cysts, prostatic adenocarcinoma, diverse cardiac problems, hypoxic patients, pyrexia of unknown origin, etc, Modern diagnostic equipments, Clinical emergencies, in-door ward care, Hospital management, Record keeping and Preparation of data base, 'Blood live donor bank' of dogs, Emergency surgeries were undertaken, Laproscopic operations in small animals through minimally invasive technique, Developed safe balanced anaesthetic protocol having quick, complication-free recovery using latest drugs through continuous rate infusion technique by infusion pumps, Pulse oxymetry diagnosis of hypoxia, Oral rehydration therapy etc.

Processing of milk and milk products i.e. traditional dairy products, Concentrated and heat desiccated products (Basundi, Khoa, Mawa, Pedha), Heat acid coagulated products (Paneer, Chhanna, Kalakand), Fermentated milk products (Curd, Chakka, Shrikhand Misti Dahi), Value added products (Chocolate burfi, Kalakand Burfi, celebration chocolate packs, Chakka whey based






pani puri, Chocolate flavor milk, Khoa Cake, Khoa based chocolate kaju roll etc.

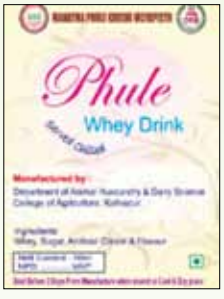
Breeding and culture aspects of freshwater fish culture, Broodstock management, Induced breeding, Seed production and care, Larval rearing, Seed packaging and transportation, Nursery management and stocking management, Health management, Soil and water quality management and feed management, Culture of high value export commodity like marine shrimps. Brooding, Vaccination programme, Selection quality feed ingredients, Preparation of feed, day to day management of birds, Marketing of birds, eggs and maintenance of account procedures etc. During 2016-18 around 330 students were trained under the above experiential learning units till date and a revenue of approx. Rs 26.66 lakhs was generated and profit shared among the students.

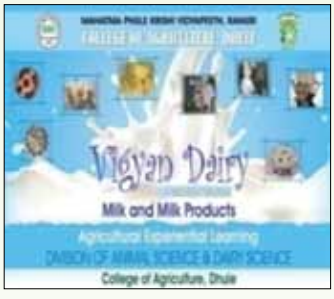
Mahatma Phule Krishi Vidyapeeth, Rahuri

The students were trained in Bio-agent production, Micro-irrigation system, Organic farming vermicompost and bio-fertilizer, Oyster (Dhingri) mushroom cultivation technology, Dairy technology, By-product technology, Protected cultivation of gerbera and rose in polyhouse and Capsicum under shed house, Dal mill processing unit, Distillation unit for extraction of aromatic plant oil, Manufacturing and custom hiring of agricultural machinery, Processing of milk and milk products, Protected cultivation of high value horticulture crops, Commercial horticulture, Commercial agriculture Commercial production of biofertilizers, Nursery management of horticulture crops, Mass production of biopesticides eg metarhiziun powder, entomopathogenic nematode, Tricocard, HaNPV, Neem seed extract. Vegetable production in onion, okra, brinjal, cucumber, tomato, garlic and leafy vegetables**,** Farm mechanization, Floriculture and landscaping. Products developed included Mastani (milk based), Matar kheer, Lavang latika, Baby cherry rasogolla, Whey candy, Bajara lassi (using *Dhanshakti* variety), etc.

Vasantrao Naik Marathwada Krishi Vidyapeeth, Parbhani

The students were trained in Protected cultivation of high value crops, Manufacture of ice-cream, paneer and shrikhand, Agro-processing for fruits and vegetables, Processing of pulses and oil seeds, Commercial sericulture,




Mushroom production, Nursery production and management, Protected cultivation of high value flower and vegetable crops, Hi-tech horticulture, Precision farming of floriculture and exotic vegetables, Commercial broiler production. They were trained for innovative new food products**,** Training for early child care, Developmental assessment and counselling, Apparel designing and production for different textile articles, Operation and maintenance of equipment in apparel production, Developed customized designs in warli painting, Computer aided embroidery and apparels, Merchandising for smooth supply chain management of apparel product enterprise, Soil, water, plant and fertilizer analysis**,** Six food products launched in collaboration with M/s. Zain Natural Agro Food Industries and other bakery units. Products developed included Ketchup, RTS, canned pulp, pickle etc. During 2016-17 and 2017-18 a total of 567 and 483 students were trained under the above experiential learning units. Figures 19a and 19b illustrate total no. of EL units across the universities and disciplines in Maharashtra.

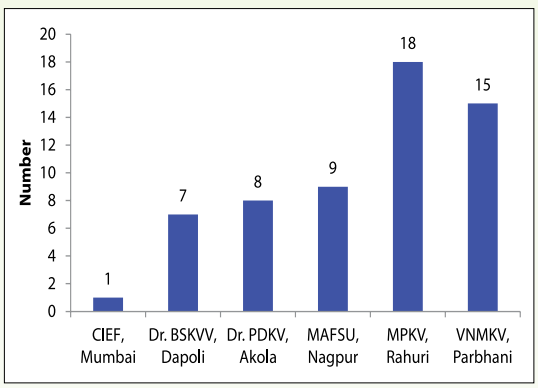


Figure 19a: University wise number of EL units in Maharashtra

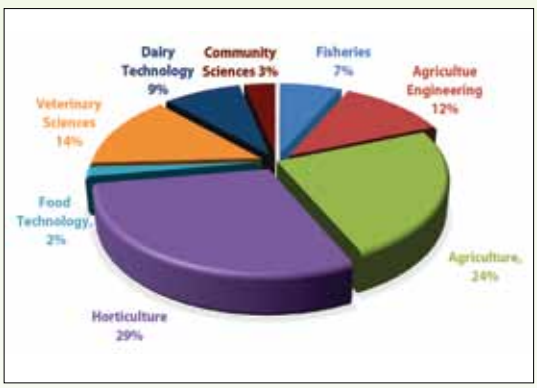


Figure 19b: Discipline wise number of EL units in Maharashtra

MADHYA PRADESH

Jawahar Lal Nehru Krishi Vishwavidyalaya, Jabalpur

The students were trained in Fruit and vegetable processing, Mass production of bio-agents and bio-pesticides, Commercial horticulture, Visual and graphic communication, Nursery Management of horticultural Crops, Organic farming (Vermicosting, Bio-fertilizer) products manufacturing, Seed production and technology etc. They were also trained for Commercial fruit and vegetable production**,** Tissue culture and micro propagation of medicinal plants, Protected cultivation of high value horticultural Crops, Food processing. Products developed included One step method for multiplication of entomopathogenic fungi *viz., Beauveria bassiana*, *Metarhizium anisopliae, Verticilium lecanii, Paecilomyces fumosoresu,* Production of high quality entomopathogenic fungi which is highly effective against lepidopteron pests of legumes and horticultural crops, Brocolli, Capsicum, Indeterminate Tomato, Cucumber, Summer Squash, Cauliflower, Cabbage, Rose and Fruit plant sapling, Muffin, Mixed Vegetable Pickle, Mixed Fruit Jam, Guava Jelly, Red Chili Pickle, Chocolate, Kodo- millet, Besan, Birra Atta and Dalia etc. During 2016-18 around 960 students were trained under the above experiential learning units and revenue of approx. Rs 25.66 lakhs was generated and profit shared among the students.

Nanaji Deshmukh Veterinary Sciences University, Jabalpur

The students were trained in Veterinary polyclinic and Disease diagnostic center, Aquaculture practices and value addition, Clinical complex, Entrepreneurship in broiler and layer production, Processing of milk and milk products, Setting up of hatchery for commercial broiler production. They were trained for treatment of animals at veterinary polyclinic and disease diagnostic center**,** Hatchery unit of Kadaknath breed of poultry etc. During 2016-18, 180 students were trained under the above experiential learning units.

Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya, Gwalior

The students were trained in Post-harvest technology and value addition, Protected cultivation of high value horticultural crops and Seed production of vegetables and flowers, Floriculture and landscape gardening, Entrepreneurship in production of bio-fertilizers, bio-pesticides and bio-control agents, Nursery production and management, Protected cultivation of high value vegetable crops, Massive in-vitro propagation of important horticulture and medicinal plant, Mushroom cultivation and value

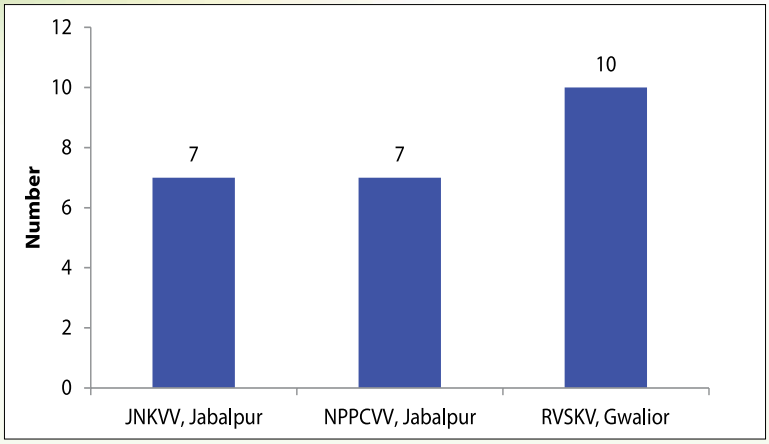


Figure 20a: University wise number of EL units in Madhya Pradesh

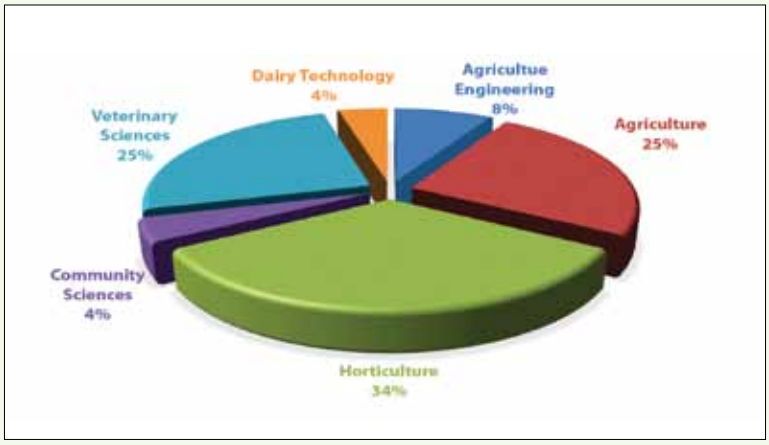


Figure 20b: Discipline wise number of EL units in Madhya Pradesh

addition, Post harvest management of turmeric and pulses, Establishment of organic farming unit., Protected cultivation of horticulture crops and Seed production of vegetables and flowers in Guava, Citrus, Pomegranate, Ber, Aonla, Grape, Rose, Marigold, Gaillard, Chrysanthemum, China aster, Tuberose, Bougainvillea etc. During 2016-17 and 2017-18, 339 and 369 students were trained under the above experiential learning units till date and a of revenue approx. Rs 2.72 lakhs was generated and profit shared among the students. Total EL units established in Madhya Pradesh is given in figure 20a, 20b.

NAGALAND

Nagaland University, Mezdiphema

The students were trained in Bee keeping and Sericulture, Nursery production and management, Mushroom production, Establishment of dairy cattle farm etc. During 2016-17 and 2017-18 a total of 55 and 57 students were trained under the above experiential learning units and revenue of approx. Rs 6.09 lakhs was generated and profit shared among the students. Figure 21a, 21b give details of EL units established in Nagaland.

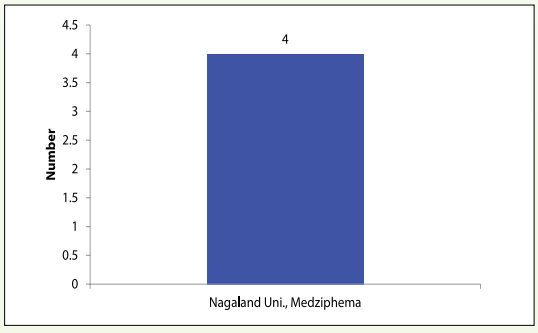


Figure 21a: Number of EL units in Nagaland

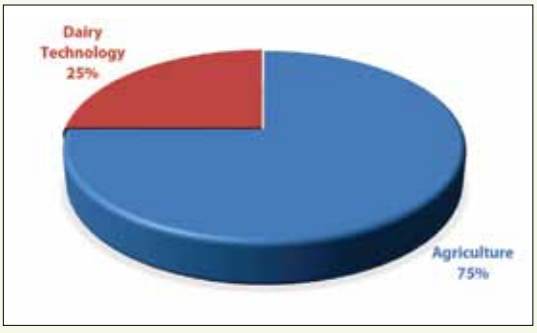


Figure 21b: Discipline wise number of EL units in Nagaland

ODISHA

Odisha University of Agriculture and Technology, Bhubaneswar

The students were trained in Agro-processing of fruits, Vegetables and spices, Production and processing of mushroom, Production of quality honey and bee colonies through queen rearing techniques, Preparation of value added poultry meat products, Handicrafts from agricultural by-products, Off season crop production, Fish post harvest technology, Fresh water aqua culture (Carp seed production), Commercial horticulture, Applied hi-tech horticulture, Seed production of carps and Post harvest technology etc. During 2016-17 and 2017-18 a total of 296 and 261 students were trained under the above experiential learning units and revenue of approx. Rs 4.25 lakhs was generated and profit shared among the students. Figures 22a and 22b give details of EL units established in Odisha.

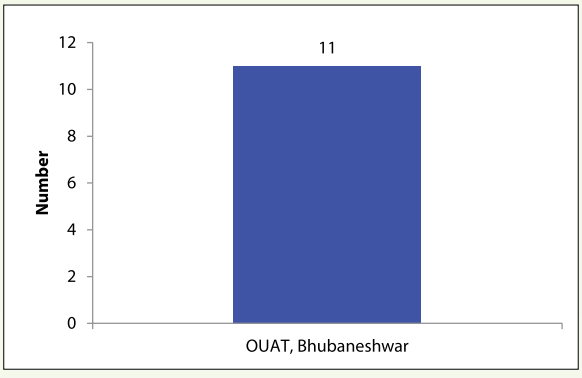


Figure 22a: Number of EL units in Odisha

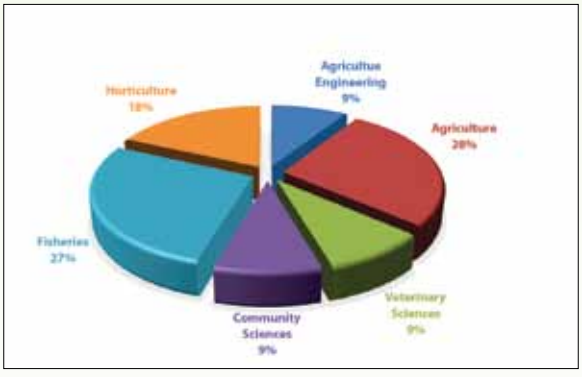


Figure 22b: Discipline wise number of EL units in Odisha

PUNJAB

Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana

The students were trained in Livestock and poultry production technologies, Veterinary clinical services to livestock pet owners, Aqua farming unit, Advanced disease diagnostic unit development, Storage and marketing of value added meat products, Processing of milk and milk products, Critical care unit etc. The students were also trained for treatment for various diseases in animals**,** De-worming, De-ticking and surgeries for control of dog population, Dental hygiene camp and anti rabies vaccination camps, Computerized radiography system for improving the quality of radiographs for diagnosis, Minimal invasive laproscopy surgery, Training in animal disease diagnostics at Teaching Veterinary Clinical Complex (TVCC), Training in the use of echocardiography to study heart functioning and diagnosis of cardiac diseases in animals, Entrepreneurial training on meat production and processing, Training for manufacturing of milk products such as variants of liquid milk, paneer, ice cream, flavoured milk, milk cake, utilization of whey, etc. Technologies for value addition i.e. egg jam, egg sauce, egg cutlets, shelf stable pork pickle etc. Functional meat and emu products in collaboration with other agencies. During 2016-18 around 162 students were trained under the above experiential learning units till date and a revenue of approx. Rs 1.72 lakhs was generated and profit shared among the students.

Punjab Agricultural University, Ludhiana

The students were given hands on training in production of Agricultural machinery, Drip sprinkler and polyhouses, Production-cum-training unit in artistic creations, Protected cultivation of vegetables, Production and processing of mushrooms, Honey and bio-agents, Child care, Commercial apiculture, Entrepreneurship in bakery and confectionery products, Apparel manufacturing, Fruits and

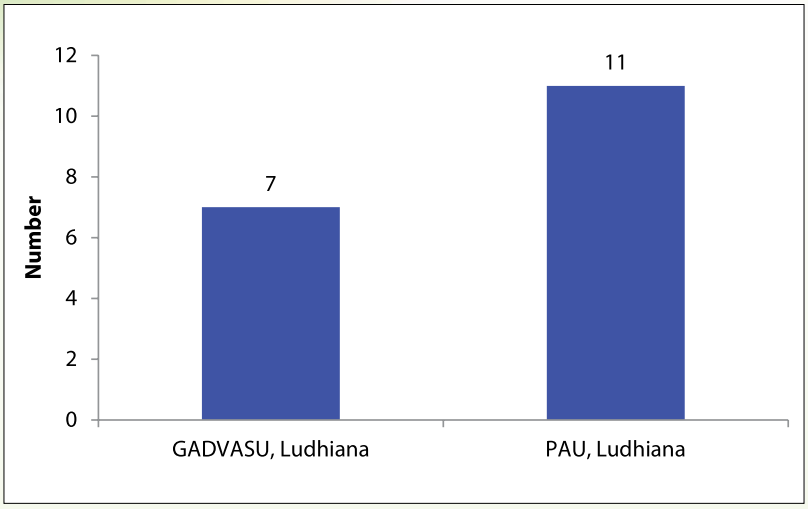


Figure 23a: University wise number of EL units in Punjab

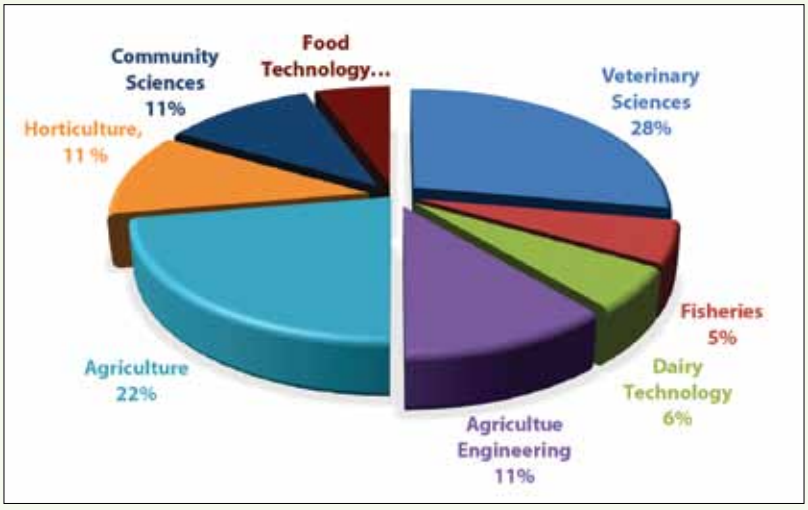


Figure 23b: Discipline wise number of EL units in Punjab

vegetables processing, Commercial plant tissue culture. During 2016-17 and 2017-18 a total of 221 and 221 students were trained under the above experiential learning units and revenue of approx. Rs 50.08 lakhs was generated and profit shared among the students. Many students have already started their own enterprise in agriculture and allied sectors. Figure 23a, 23b give details of EL units established in Punjab.

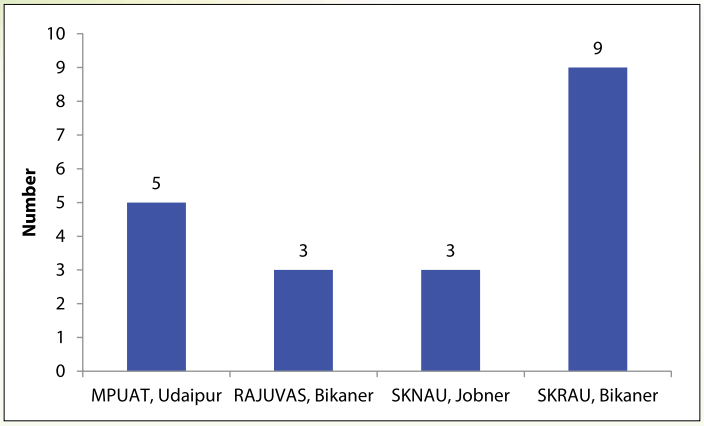
RAJASTHAN

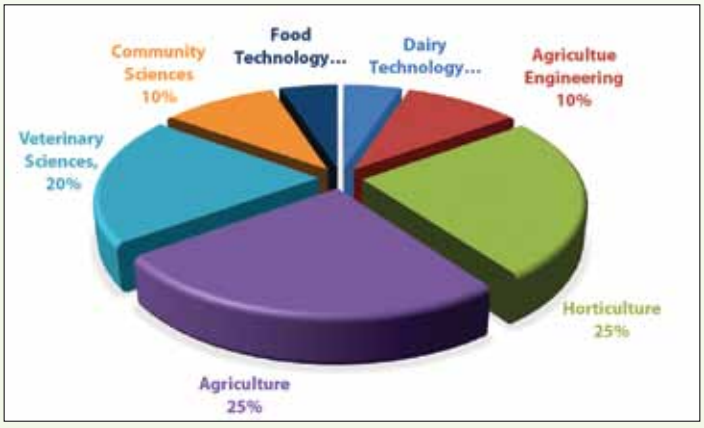
Maharana Pratap University of Agricultural and Technology, Udaipur

The students were trained in Specialty foods like high protein food, Health food and milk foods manufacturing, Renewable sources of energy, Processing for fruits and vegetable and development of mixed foods, Bio-control Unit, Processing and value addition of agricultural products and Apparel manufacturing. The students were also trained for milk and milk products and the products were licensed to a dairy in Udaipur for sale of products. During 2016-18 around 454 students were trained under the above experiential learning units. Many students have already started their own enterprise in agriculture and allied sectors.

Rajasthan University of Veterinary and Animal Sciences, Bikaner

The students were trained in Broiler and layer production, Critical care unit, Pet pups production, Maintenance of parent stock of





different breeds viz., Labrador retriever, Pug, Beagle, German shepherd**,** Avian Production Management**,** Poultry nutrition, Poultry breeding and poultry farm practice, Practical training on vaccination, Debeaking, Formulation of rations for chicks, growers and layers etc. During 2016-18 around 80 students were trained under the above experiential learning units.

Sri Karan Narendra Agriculture University, Jobner

The students were trained in Commercial horticulture, Mass production of Bio agents and Bio pesticides, Entrepreneur skill development in goat farming. The students were also trained for Protected cultivation etc. During 2016-18 around 315 students were trained under the above experiential learning units.

Swami Keshwanand Rajasthan Agriculture University, Bikaner

The students were trained in High tech nursery for arid horticultural crops, Value addition unit for fruits and vegetables, Vermiculture and Vermicompositing, Micropropagation, Mass production of Bio-agents (Fungal and Bacterial), Designing and development of information material, Apparel production, Protected cultivation of high value horticulture crops, Food processing and product development etc. During 2016-17 and 2017-18 a total of 103 and 156 students were trained under the above experiential learning units and revenue of approx. Rs 18.26 lakhs was generated and profit shared among the students. Many students have already started their own enterprise in agriculture and allied sectors.

TAMIL NADU

Tamil Nadu Agricultural University, Coimbatore

The students were trained in Production of biofertilizer, biopesticides and Organic farming, Manufacturing of renewable energy gadgets and biodiseal, Integrated farming system including mushroom and silkworm production, Quality propagules production technology for forestry, Multi-cottage level food processing centre etc. During 2016-18 around 895 students were trained under the above experiential learning units and of revenue approx. Rs 31.00 lakhs was generated and profit shared among the students.

Tamil Nadu Fisheries University, Nagapattinam

The students were trained in Sea food processing and value addition, Freshwater aqua farming (Carp production), Clinical complex, Ornamental fish breeding and rearing management, Shrimp farming, Techniques of preparing value added fish and fishery products eg, dressed fin fish like round fish, steaks, chunks, fillets, dressed prawns in different styles which includes headless, peeled un-deveined, peeled deveined, fantail round, butterfly cut, nobashi etc. They students also learned preparing squid tubes, cuttlefish fillets, and squid rings for sale. Products developed included fish pickle, prawn pickle, fish cutlet, fish bhajji, fish briyani, fish burger, fish sand -witch, fish soup powder, fish rolls, fish fry, fish ball, fish samosa, fish roll, bread ball, fish bonda etc. During 2016-18 around 120 students were trained in the above experiential learning units.

Tamil Nadu Veterinary and Animal Sciences University, Chennai

The students were trained in Hatchery unit, Post harvest technology unit, Turkey post harvest technology, Commercial pig rearing, Feed manufacturing technology, Veterinary polyclinic









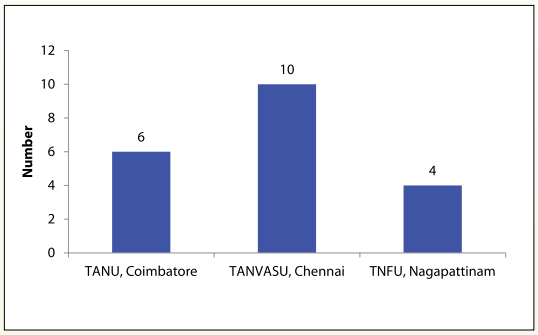


Figure 25a: University wise number of EL units in Tamil Nadu

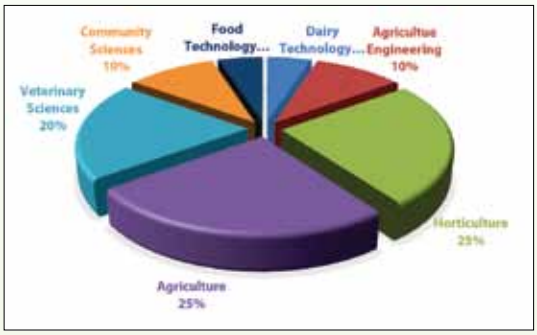


Figure 25b: Discipline wise number of EL units in Tami Nadu

and disease diagnostic, Broiler and layer production, Critical care, Processing of milk and preparation of value added dairy products, Pet food processing unit. They students were trained for treatment of animals, Animal blood banking, Donor recruitment, Donor screening, Blood collection, Processing and storage**,** Pet food processing, Milk and milk products, Feed formulation and quality aspects of raw and finished feeds, GMP in feed manufacturing and record maintenance with entrepreneurship skills, Tail docking, Identification, Castration, Heat identification, Methods of breeding, Weight recording to calculate the weight gain loss, Feeding formula for pig ration, Methods to reduce feed cost by introducing waste and greens in the pig ration and quantity of feed, Disease management etc. State of the art veterinary transfusion medicine facility first of its kind in India was created, the product sold through sales counter, Feed manufacturing unit "Porur pet feeds" was created.

During 2016-18 around 436 students were trained under the above experiential learning units and revenue of approx. Rs 42.33 lakhs was generated and profit shared among the students. Many students have already started their own enterprise in agriculture and allied sectors.

TELANGANA

Professor Jayashankar Telangana State Agricultural University, Hyderabad

The students were trained in Nurseries for vegetables and fruits including Tissue culture technology, Soil, water and plant testing laboratory, Sericulture production and marketing unit. The students were trained for Crop production in rice, Maize, Hybrid maize and Pulses**,** Tissue culture, Organic farming, Forest Nursery management, Mushroom cultivation, Vermi composting, Production and marketing of bio-control agents, Dissemination of mushroom technology through TV and radio channels etc. During 2016-17 and 2017-18 a total of 659 and 554 students were trained under the above experiential learning units and revenue of approx. Rs 5.57 lakhs was generated and profit shared among the students.

Sri P. V. Narasimha Rao Telangana State University for Veterinary, Animal and Fishery Sciences, Hyderabad

The students were trained for Development of milk value added products. These products were marketed through organised dairy parlour booth.

Sri Konda Laxman Telangana State Horticultural University, Hyderabad

The students were trained in Protected





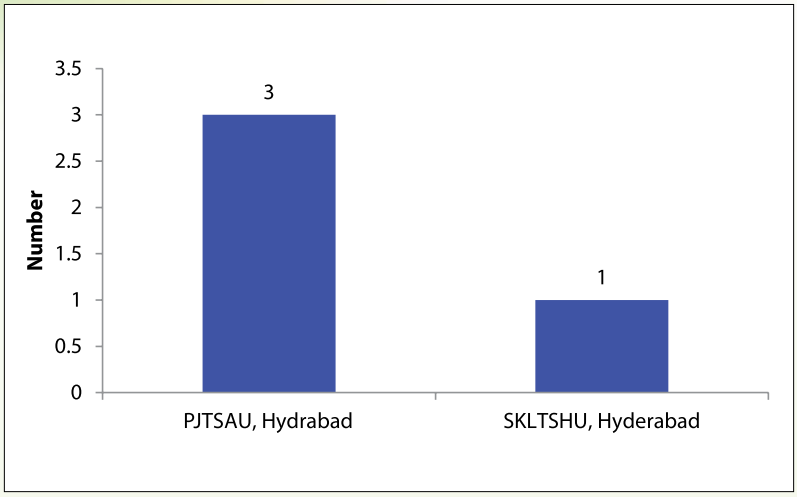



Figure 26a: University wise number of EL units in Telangana

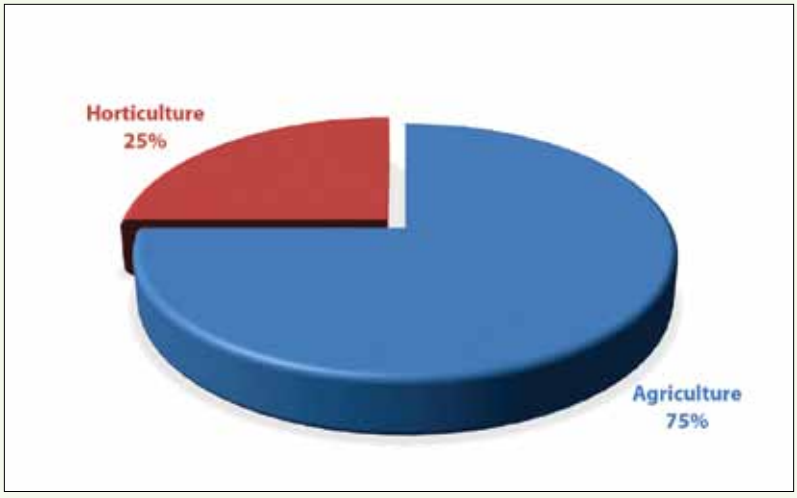


Figure 26b: Discipline wise number of EL units in Telangana

cultivation of high value horticultural crops, Raising of primary and secondary nursery of ornamental plants, mango and citrus rootstocks, Bonsai making, Plant propagation techniques eg, layering, grafting and budding, Production of high value flowers (Carnation, Roses, Gerberas) and Vegetables (Cucumber, Tomatoes and Capsicum), Structures and designs of Horticultural engineering component, Plant protection measures and economics. During 2016-17 and 2017-18 a total of 85 and 110 students were trained under the above experiential learning units and revenue of approx. Rs 0.94 lakhs was generated and profit shared among the students. Figure 26a, 26b illustrate EL units established in Telengana.

UTTARAKHAND

Govind Ballabh Pant University of Agriculture and Technology, Pantnagar

The students were trained in Protected cultivation of high value crops, Nursery production and management, Production and management of alternative renewable sources of energy, Value addition and marketing of soy products, Hands on training on dietetics and food service management, Entrepreneurship training in value addition of meat and poultry, Veterinary polyclinic and disease diagnostic center, Fruit and vegetable processing, Fish post harvest technology, Nursery production and protected cultivation of chrysanthemum. The students were also trained for value addition in meat and poultry products. During 2016-18 around 401 students were trained under the above experiential learning units.

Uttarakhand University of Horticulture and Forestry, Bharsar

The students were trained in Protected cultivation of high value vegetables crops, Processing of fruits and vegetables for value addition etc. Figures 27a and 27b illustrate EL units established in Uttarakhand.

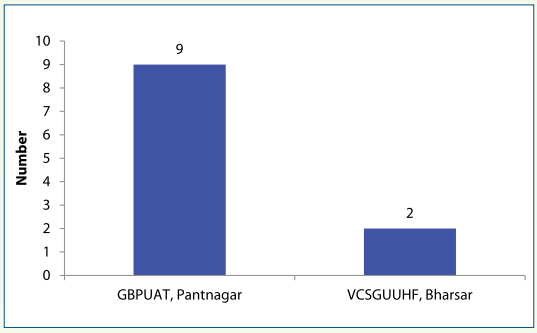


Figure 27a: University wise number of EL units in Uttarakhand

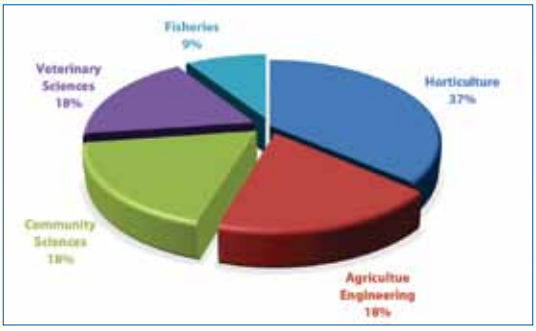


Figure 27b: Discipline wise number of EL units in Uttarakhand

UTTAR PRADESH

Banaras Hindu University, Varanasi

The students were trained in Tissue culture, Micro and mass propagation of horticultural and plantation crops, Hi-tech horticulture for production of ornamentals, Mass production of bio-control agents, Bio-fertilizers production, Fishery-cum-duckery, Commercial horticulture, Processing of milk and milk product, Mushroom laboratory etc. During 2016-17 and 2017-18 a total of 177 and 363 students were trained under the above experiential learning units.

Chandra Shekhar Azad University of Agriculture and Technology, Kanpur

The students were trained in Production and processing of honey including bee keeping, Production and processing of mushroom, Nursery raising of vegetables and annual fruits, Developing methodology of multimedia package for agricultural communication, Bio-control agents production and service unit, Cultivation and value addition of medicinal and aromatic plants, Commercial horticulture, Seed production and seed processing technology, Production of bio fertilizers for development of entrepreneurship skills among students etc. During 2016-17 and 2017-18 a totol of 132 and 129 students were trained under the above experiential learning units. Many students have already started their own enterprise in agriculture and allied sectors.

Pandit Deen Dayal Upadhyaya Pashu Chikitsa Vigyan Vishwavidyalaya Evam Go-Anusandhan Sansthan, Mathura

The students were trained in veterinary clinical services to livestock farmers, Clinical services, Milk and meat processing and livestock product manufacturing, Entrepreneurship training on modern dairy farm management and practices, Feed production and processing, Entrepreneurship in broiler and layer production, Manufacturing of Urea Mineral Molasses Block (UMMB) etc.

Indian Veterinary Research Institute, Izatnagar (ICAR Deemed University)

The students were trained in frozen semen production, Livestock product and processing etc.

Banda University of Agriculture and Technology, Banda

The students were trained in development of entrepreneurial skills through Spawn and Mushroom production and its marketing. During 2016-18 around 91 students were trained and many students have already started their own enterprise in agriculture and allied sectors.

Rani Lakshmi Bai Central Agricultural University, Jhansi

The students were trained in Seed production, Processing and marketing, Production of quality transplants and processing of medicinal and aromatic plants. etc.

Narendra Dev University of Agriculture and Technology, Faizabad

The students were trained in Maintenance, repair and custom hiring centre of farm machinery and equipment's, Agro-processing centre for processing and value addition in rice, Nursery production and management, Plant clinic, Veterinary polyclinic and disease diagnostic center, Aquaculture practices and value addition, Clinical complex, Entrepreneurship in broiler and layer production, Processing of milk and milk products, Setting up of hatchery for commercial broiler production etc. During 2016-18 around 54 students were trained under the above experiential learning units.

Sam Higginbottom University of Agriculture, Technology and Sciences, Allahabad

The students were trained in Tissue culture technology, Processing of fruits and vegetables for value addition, Bio-Pesticides and Bio-agents, Micro-Irrigation technology, Dairy technology, Apparel production, Designing and development of information material, Food processing and product development, Development of quality planting materials in forestry, Broiler and layer production, Clinical complex, Processing of milk and milk products. They were also trained for agro processing and product development**,** Quality planting material in forestry and tissue culture**,** Bio-pesticides and bio-agents production**,** Micro

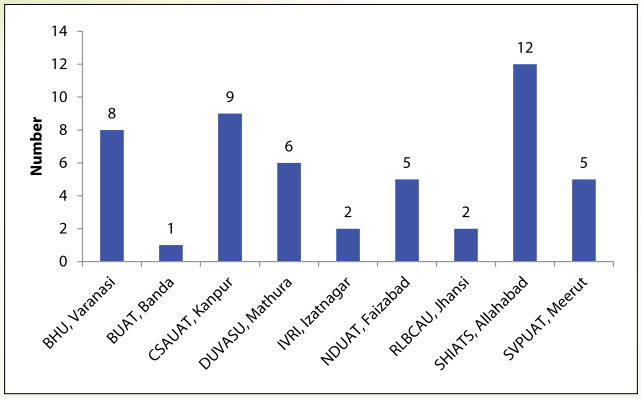


Figure 28a: University wise number of EL units in Uttar Pradesh

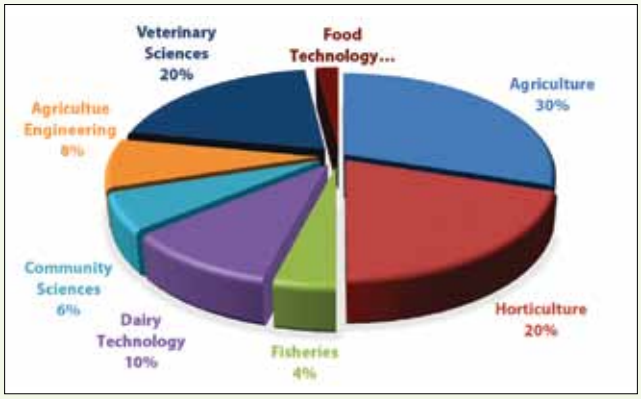


Figure 28b: Discipline wise number of EL units in Uttar Pradesh

irrigation, Apparel production. The students have started own enterprise i.e., Milk and tofu production plant, Nursery business, Orchard management banana and papaya contractual farming and provides training for livestock management**,** Designing and development of information materials (eg.CD on awareness generation on Swachh Bharat) etc. During 2016-18 around 547 students were trained under the above experiential learning units and revenue of approx. Rs 56.00 lakhs was generated and profit shared among the students.

Sardar Vallabh Bhai Patel University of Agriculture and Technology, Meerut

The students were trained in Model agro processing system for horticultural produce, Brackish water fish and shrimp farming, Doorstep clinical services on demand, Soil-water analysis and Plant clinic, Application of biotechnology in Agriculture etc. During 2016-18 around 339 students were trained under the above experiential learning units. Figures 28a and 28b illustrates EL units established in Uttar Pradesh.

WEST BENGAL

Bidhan Chandra Krishi Viswavidyalaya, Mohanpur

The students were trained in Maintenance and custom-hiring of farm machinery and equipment, Model rice based agro processing unit, Value addition technology, Integrated technologies, Drip fertigation to fruit crops for better yield and economy, Model farm for production of medicinal plants, Design fabrication and testing of agricultural machinery, Commercial apiculture, Commercial horticulture, Processing of fruit and vegetables for value addition etc. During 2016-17 and 2017-18, a total of 103 and 231 students were trained under the above experiential learning units and revenue of approx. Rs 5.79 lakhs was generated and profit shared among the students.

Visva Bharati University, Birbhum (Shantiniketan)

The students were trained in Production of edible mushrooms and spawn. i.e.paddy straw mushroom (*Volvariella volvaceae*) etc. During 2016-18 around 47 students were trained.

Uttar Banga Krishi Vishwavidyalya, Coochbehar

The students were trained in Nursery production and management, Nursery production through tissue culture and Management for horticultural crops, Engineering technologies, Commercial floriculture. They were trained for Commercial floriculture i.e. cut flowers of gerbera, *Anthurium, Dendronbium*, Bird of paradise etc, Production of capsicum and french bean under protected condition, Off season production of vegetables, Exotic vegetables**,** Agro processing and value addition, Integrated technologies i.e production of seedlings, saplings of horticultural crops, Vermi-composting, Bio-control agents and Bio-fertilizers, Mushroom spawn production etc. During 2016-17 and 2017-18j a total of 66 and 111 students were trained under the above experiential learning units and

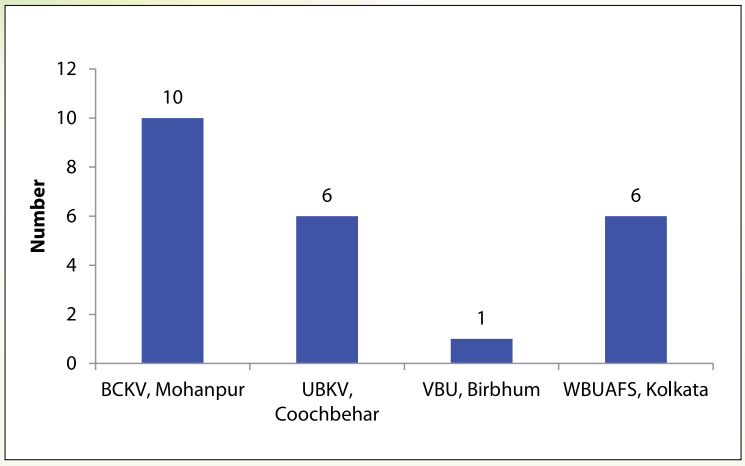


Figure 29a: University wise number of EL units in West Bengal

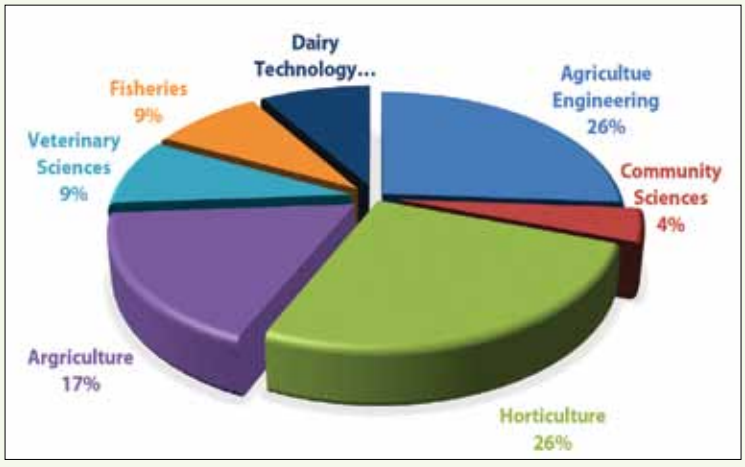


Figure 29b: Discipline wise number of EL units in West Bengal

revenue of approx. Rs 2.44 lakhs was generated and profit shared among the students.

West Bengal University of Animal and Fishery Sciences, Kolkata

The students were trained in Veterinary clinical services to livestock farmers, Fish post harvest technology, Value addition of traditional dairy products, Aquatic environment health clinic, Processing of milk and milk products and Critical care unit. Figure 29 illustrate EL units established in West Bengal. During 2016-17 and 2017-18, a total of 40 and 59 students were trained under the above experiential learning units.

The number of EL Units as shown in figures 8 to 29 above depicts the number of EL units originally sanctioned to the agricultural university. However, due to bifurcation of the university the present status may be changed in some cases.

Photographs of Activities under ELP













SHALIMAR FRENCH BEAN-1
SEED PRODUCTION




















Experiential Learning Units: Major Areas

Several experiential learning units were established in various agricultural universities since its inception in various disciplines to agriculture and allied sciences. However the major title of EL units in different disciplines are presented below.

Agriculture

- Apiary and apiculture training centre
- Beekeeping and sericulture
- Beekeeping and honey production
- Bio-agent production
- Bio-control agent production and service unit
- Bio-fertilizer production unit
- Bio-pesticides and bio-agents
- Bio-pesticides laboratory for commercial production
- Commercial agriculture
- Commercial apiculture
- Commercial production of bio-control agents
- Commercial production of biofertilizers
- Commercial production of bio-inputs for agriculture
- Development of entrepreneurial skills through spawn and mushroom production and its marketing
- Enriched vermicompost production
- Entrepreneurship centre for bio inputs
- Entrepreneurship in production of bio-fertilizers, bio-pesticides and bio-control agents
- Enterprise management capability through makhana production system management
- Establishment of bio fertilizers production modules
- Establishment of organic farming unit
- Experiential learning on bio-control
- Integrated farming system model including mushroom and silkworm production
- Mass production of bio agents and bio pesticides
- Mass production of bio-control agents
- Microbial pesticides production unit
- Model unit for silkworm seed, *chawki* and bio-craft production
- Mushroom cultivation and spawn production
- Mushroom production for training and skill development
- Mushroom production unit
- Mushroom technology
- Mushroom, bio-agents and vermicompost production and processing
- Nursery management
- Nursery production and management
- Off season crop production unit
- Organic farming (Vermicomposting, Bio-fertilizer) products unit
- Oyster (*Dhingri*) mushroom cultivation technology
- Plant clinic
- Plant health clinic
- Plant tissue culture
- Post-harvest management of turmeric and pulses
- Processing unit of cereals and pulses
- Production and marketing of tea plants and processed green tea
- Production and processing of honey including bee keeping
- Production and processing of mushroom

- Production and processing of mushrooms, honey and bio-agents
- Production of beneficial insects and other organisms
- Production of bio-agents and bio pesticides
- Production of bio-control agents
- Production of bio-fertilizers for development of entrepreneurship skills among students
- Production of bio-fertilizers, bio-pesticides and bio-agents
- Production of bio-fertilizers, bio-pesticides including parasites
- Production of edible mushrooms and spawns
- Production of medicinal and aromatic plants through tissue culture
- Production of quality honey and bee colonies through queen rearing techniques
- Production technology for bio-fertilizer
- Production unit for high quality compost, vermicompost, vermicompost and biofertilizers
- Quality organic input production and rapid composting technologies
- Quality seed production of field crops
- Seed production and processing unit
- Seed production and technology
- Seed production, processing and marketing
- Sericulture production and marketing unit
- Setting up production of biofertilizer, biopesticides and organic farming
- Skill development of educated youth for eco-friendly bee keeping entrepreneurship
- Soil water analysis and plant clinic
- Soil, water and plant testing laboratory
- Soil, water, plant and fertilizer analysis laboratory
- Soil-water analysis and plant clinic
- Strengthening of bio-control unit for mass production of bio-agent (Trichogramma)
- Value added product of *anola* fruits
- Vermiculture and vermicomposting

Agriculture Engineering

- A model demonstration unit for processing of pulses and oil seeds
- Agri bio-inputs and mushroom spawn production
- Agricultural machinery management, custom hiring and mobile workshop
- Agro processing
- Agro processing centre for value addition and technical support services
- Agro processing plant for cereals, pulses and oil seeds
- Agro-processing centre for fruits, vegetables and spices
- Agro-processing centre for processing and value addition in rice
- Agro-processing unit for fruits and vegetables
- Custom hiring package from farm equipment's
- Dal mill processing unit
- Design fabrication and testing of agricultural machinery
- Design, planning and evaluation of watershed
- Distillation unit for extraction of aromatic plant oil
- Drip fertigation to fruit crops for better yield and economy
- Engineering technologies
- Establishing model integrated farming system
- Establishing model processing plant
- Experiential learning unit on micro-irrigation technology
- Fruit and vegetable processing
- Green house fabrication unit and modernization of poly-house/ greenhouses for temperate and cold arid regions of north western Himalayas
- Hands on training in production of agricultural machinery
- Hands on training on drip sprinkler and polyhouse
- Integrated technologies

- Maintenance and custom-hiring of farm machinery and equipment
- Maintenance, repair and custom hiring centre of farm machinery and equipment's
- Manufacturing and custom hiring of agricultural machinery
- Manufacturing renewable energy gadgets and biodiesel
- Mechanization of rice farming
- Model rice based Agro processing unit
- Micro irrigation systems.
- Multi-cottage level food processing centre for training centre for training and incubation
- Post-harvest technology for cashew entrepreneurs
- Post-harvest management and value addition of mushroom
- Post-harvest technology and value addition
- Processing and product development of maize
- Processing and value addition of agricultural products
- Production and management of alternative/ renewable energy source
- Remote sensing geographical information system and land use planning
- Renewable sources of energy
- Seed processing technology
- Specialization in post-harvest horticulture and processing
- Up-gradation of engineering workshop

Biotechnology

- Plant tissue culture
- Application of biotechnology in agriculture
- Commercial plant tissue culture
- Experiential learning on biotechnology
- Nursery for vegetables and fruits including tissue culture technology
- Nursery production through tissue culture & its management for horticultural crops
- Production of medicinal & aromatic plants through tissue culture & production of bio-fertilizers
- Specialization in tissue culture
- Tissue culture technology
- Tissue culture, micro & mass propagation of horticultural & plantation crops

Community Sciences (Home Science)

- Apparel manufacturing
- Apparel production
- Designing and development of information material
- Designing and development of instructional media products
- Developing methodology of multimedia package for agricultural communication
- Establishing technical support service centre
- Establishment of multimedia and graphic unit for designing and production of information materials
- Evolving teaching learning materials and kits for early childhood education programmes
- Garment manufacturing and value addition technology
- Handicrafts from agricultural by-products
- Hands on training on dietetics and food service management
- Laboratory school for developmentally challenged children
- Media lab for designing and production of information material
- Product design digital embroidered home furnishings
- Production cum training unit in artistic creations
- Teaching learning materials for early childhood education
- Training in home science, production technology and value addition
- Training programme for child care providers

- Value addition and marketing of soy products
- Value addition technology
- Visual and graphic communication

Dairy Technology

- Dairy processing
- Dairy technology
- Dairy technology, by-product technology
- Entrepreneurship training on modern dairy farm management and practices
- Establishment of dairy cattle farm
- Experiential dairy plant
- Instructional dairy plant
- Milk processing and value addition
- Model demonstration unit for processing of milk and preparation of value-added dairy products
- Processing of milk and milk products
- Processing value addition and marketing of milk and marketing of milk products
- Specialty foods like high protein food, health food and milk foods
- Undergraduate instructional dairy plant
- Value added dairy products and fermented milk products
- Value addition of traditional dairy products

Fisheries

- Aqua farming
- Aquaculture and related harvest and postharvest technologies
- Aqua-farming shrimp hatchery and farming
- Aquatic environment health clinic
- Brackish water fish and shrimp farming
- Entrepreneurship centre for post-harvest technology in sea food
- Fish post-harvest technology
- Fish production technology unit
- Fishery-cum-duckery farm unit
- Fresh water aquaculture
- Fresh water aqua farming
- Ornamental fisheries unit
- Processing of high value and low value fishes
- Production of Indian major carp fingerlings
- Production of ornamental fish
- Production of quality carp seed
- Seafood processing centre for value added products and by products
- Seed production of carps and post-harvest technology
- Unit on sea food processing and value addition

Food Technology

- Bakery and confectionaries for entrepreneurial development
- Bakery and confectionery products
- Bakery, confectionary, mushroom production, honey processing and packaging
- Commercial bakery unit
- Dehydrated onion processing and packaging unit for value addition
- Dehydration of fruits and vegetables
- Entrepreneurship in bakery and confectionery products
- Establishment of food processing unit and production of value-added products
- Food processing and product development
- Milk and meat processing and livestock product manufacturing
- Processing of fruits and vegetable for value addition
- Processing of tomato for value addition
- Value addition in anola, mango, tomato and *kagiz-lime*

Forestry

- Development of quality planting materials in forestry
- Extraction of essential oils from forest plant
- Forestry nursery production

- High Tech Tree Nursery and wood processing Unit
- Production and marketing of quality forest planting material
- Production and marketing of quality planting material of forest species
- Quality propagules production technology for forestry
- Raising quality planting material for forest regeneration

Horticulture

- Applied hi-tech horticulture
- Commercial floriculture
- Commercial horticulture
- Commercial production and quality assurance in horticulture
- Cultivation and value addition of medicinal and aromatic plants
- Floriculture and landscape gardening
- Fruits and vegetables processing
- Hi tech floriculture
- High tech nursery for arid horticultural crops
- Hi-tech horticulture for production of ornamentals
- Hi-tech nursery for horticultural crops
- Hi-tech protected cultivation of horticultural crops production
- Massive in vitro propagation of important horticulture and medicinal plant
- Nursery management and micro propagation of horticulture crops
- Nursery management of horticultural crops
- Nursery production and management
- Nursery production and management and protected cultivation of high value flower and vegetable crops
- Nursery production and protected cultivation of chrysanthemum
- Nursery production through tissue culture and its management for horticultural crops
- Post-harvest technology and processing for value addition
- Post-harvest technology and value addition
- Post-harvest technology and value addition of fruits vegetable
- Precision farming of floriculture and exotic vegetables
- Processing and preservation of fruits and vegetables
- Processing and value addition centre for fruits and vegetables
- Processing and value addition of horticultural crops
- Processing centre for fruits and vegetable and development of mixed foods
- Processing fruits and vegetables for value addition
- Processing of fruits, vegetables and some other food items
- Processing of horticulture produce for value addition
- Production and marketing of mushroom
- Production of ornamental, medicinal and aromatic plants management
- Production of quality transplants and processing of medicinal and aromatic plants
- Protected cultivation of gerbera and rose in poly house and capsicum under shed house
- Protected cultivation of high value crops
- Protected cultivation of high value crops, nursery production and management
- Protected cultivation of high value horticultural crops and seed production of vegetables and flowers
- Protected cultivation of high value vegetable and flower crops in hills
- Protected cultivation of high value vegetable crops
- Protected cultivation of horticultural crops
- Protected cultivation of vegetables

- Protected cultivation of vegetables and flowers
- Protective cultivation for high-tech horticulture
- Quality planting material production in horticultural crops
- Training on nursery raising of vegetables and annual fruits
- Value addition unit for fruits and vegetables

Veterinary Sciences

- Advanced disease diagnostic unit
- Animal feed formulation and production
- Broiler and layer production
- Clinical complex
- Commercial broiler production
- Commercial pig rearing
- Composite livestock farming systems
- Construction of veterinary polyclinic
- Critical care unit
- Development, storage and marketing of value-added meat products
- Doorstep clinical services on demand
- Entrepreneur skill development in goat farming
- Entrepreneurship in broiler and layer production
- Entrepreneurship oriented broiler production unit
- Entrepreneurship oriented male weaner goats rearing and selling unit
- Entrepreneurship training unit in value addition of meat and poultry
- Establishment of broiler and layer production centre
- Experiential learning for hands on training for critical care unit
- Experiential learning for hands on training in clinical services
- Experiential learning module on goat
- Experiential learning on feed production and processing
- Facilities for hands on training on veterinary
- Feed manufacturing technology
- Feed mill for livestock and poultry and feed formulation
- Frozen semen production unit
- Goat production and rearing
- Hands on training of veterinary undergraduates
- Hatchery management and commercial broiler production unit
- Hatchery unit
- Livestock and poultry feed and mineral mixture production unit
- Livestock and poultry feed manufacturing unit
- Livestock and poultry production technologies
- Livestock product and processing unit
- Model meat and poultry products processing centre
- Model meat processing plant
- Model operation theatre
- Model turkey post-harvest technology unit
- Pet food processing unit
- Pet pups' production
- Pet pups production/ pet spa/ pet boarding
- Pig production for profitable enterprise
- Poultry management unit
- Processing of wool and pashmina for value added products
- Setting up of hatchery for commercial broiler production for experiential learning hands on training
- Establishment of Teaching Veterinary Clinical Complex (TVCC) for pet animal
- Urban animal care clinic and pet care services
- Veterinary clinical services to livestock farmers, pet owners
- Veterinary polyclinic and disease diagnostic center

Success Stories of Student Entrepreneurs

The Experiential Learning programme offered to undergraduate students have profound influence on mind set of the students by empowering them with skills and motivating them towards holistic development, more focusing on specific dimensions to shape their career. Experiential Learning courses can make difference in learning beyond class room and graduation. Among several experiences that have been observed, a few are documented here to provide an insight that how experiential learning has helped undergraduate students in setting up of their own enterprise.

Name of the student entrepreneur	**Mr Anand Rampure**
Contact details	Abdul Faiza Darga, Police quarters, Bidar-585401
Email ID and contact number	rampure2020@gmail.com, 8197113792
Name of the University	University of Agricultural Sciences, Raichur, Karnataka
Name of the College	College of Agricultural Engineering
Year of Passing	2013
Experiential learning programme attended	Yes
Title of enterprise and year of start	Shri Siddeshwar Agrotech and Horti Clinic 2014
Nature of enterprise	Farm implements and irrigation system
Details of enterprise	Dealership of drip irrigation and sprayers, Sales of spares parts and service
Approximate turnover	Rs 30.00 Lakh
Approximate Net Profit per Year	Rs 6.00 Lakh
Number of persons employed	4

Name of the student entrepreneur	**Mrs. Apoorva Vanakudri**
Contact details	Mission Compound, Dharwad – 580001
Email ID and mobile number	apporvavanakudre@gmail.com, 9945457143
Name of the university	University of Agricultural Sciences, Dharwad, Karnataka
Name and address of college	College of Community Science, Dharwad
Year of passing	2015
Experiential learning programme attended	Yes
Title of enterprise and year of start	"Manasika Aarogya Sansthe, 2015
Nature of enterprise	Human development and family management
Details of enterprise	Counselling centre, Assessment of children on various developmental outcomes like Psycho motor, cognitive socio emotional development etc., Counselling to students and parents, Personality development courses
Approximate turnover	Rs 10.00 Lakh
Approx. net profit	Rs 5.00 Lakh
Number of persons employed	5

Name of the student entrepreneur	**Mr Arun kumar**
Contact details	169, 14 cross, Ist "C " main, Soundarya layout, Hessarghatta main road , Nagasandra post, Bengaluru 5600073
Email ID and contact number	agricoarun@gmail.com, 9845466755
Name of the university	University of Agricultural Sciences, Bangalore, Karnataka
Name and address of college	College of Agriculture, GKVK, Bangalore
Year of passing	2004
Experiential Learning programme attended	Yes
Title of enterprise & year of start	Parvathi Agri (e clinic) 2016
Nature of the enterprise	Agri-Business
Details of the enterprise	Corporate farming (leases farming 48 acres) Own farming (Pomegranate, Arecanut, Guava), corporate consultancy Potato trading, Tissues culture plants supply (Papaya, Potato, Guava, Banana)
Approximate turnover	Rs 150.00 lakh
Approximate net profit per year	20 percent
Number of Persons Employed	20



Name of the student entrepreneur	**Mr Darshan kumar Sureshbhai Patel** **Mr Jaykumar Ashokbhai Gadhiya** **Mr Pratikkumar Mukeshbhai Patel**
Contact details	Darshan Patel : 269, Hathipura, Vijapur, Mehsana, Gujarat-382870 Jay Gadhiya: Block 8/3 Sheri no. 1 AshirvadAvnyu, Ranjit Sagar road, near Lalpur bypass chokdi, Jamnagar-361005 Pratik Patel : Umiyanagar Society, Rajapur road, Vadagam, Dhanshura, Arvalli-383307
Email id & Mobile number	darshansp97@gmail.com, +91 83470 29318 gadhiyajay7@gmail.com, +91 87339 02955 patelpratik1300@gmail.com, +91 94280 51867
Name of the University	Anand Agricultural University, Anand, Gujarat
Name and Address of the College	B. A. College of Agriculture, Anand
Year of Passing	2018
Experiential learning programme attended	Yes
Title of enterprise and year of start	"lkfRod **Honey" (*Satvik* Honey),** 2018
Nature of enterprise	Partnership
Details of enterprise	They attended Experiential Learning Programme on "Commercial Beekeeping" and started their own enterprise "सात्विक Honey" after completion of graduation degree. No financial support was taken as they started the enterprise with the 'Internship money' and with personal savings. The products sold are raw filtered honey produces through their own hives and from other sources as well.
Approximate turnover	Rs 9.50 Lakh
Approximate net profit	Rs 3.60 Lakh
Number of persons employed	4




Pratik : 94280 51867
Jay : 87339 02955
Darshan : 83470 29318
મધ ની ગુણવત્તા એ જ
અમારી ઓળખાણ
Natural - Unprocessed - Pure -
Raw - Pesticide Residue Free
satvikhoney2k18@gmail.com
सात्विक
HONEY


सात्विक
HONEY

Name of the student entrepreneur	**Mr Darshan K. S.**
Contact details	#10, Renuka Nilaya, Vijaya nagar 2nd stage, Belure Road, Hassan - 573201
Email ID and mobile number	cafevegappetite@gmail.com, 9663968954
Name of the university	University of Agriculture Sciences, Bangalore, Karnataka
Name and address of college	College of Agriculture, Hassan
Year of passing	2012
Experiential learning programme attended	Yes
Title of enterprise and year of start	Veg Appetite, 2018 Shiva Foods Mushroom, 2019
Nature of the enterprise	Mushroom Processing
Details of the enterprise	Continental café and B2C Mushroom business Freelance in a Bakery Industry. Mushroom spawn unit and Banana chips processing facility expanded to 1200 sq ft.
Approximate turnover	Rs 6.00 lakh
Approx.net profit	Rs 3.00 lakh
Number of persons employed	2

Name of the student entrepreneur	**Mr Deepak Tanaji Kalel**
Contact details	Ganesha Agro Farm, Bijwadi Tal. Indapur Dist. Pune, Sate- Maharashtra
Email ID and contact number	deepakkalel97gmail.com, 9665665197
Name of the University	Mahatma Phule Krishi Vidyapeeth, Rahuri, Maharashtra
Name of College	College of Agriculture, Pune
Year of Passing	2014-15
Experiential learning programme attended	Yes
Title of enterprise and year of start	Agricultural processing and marketing 2016
Nature of enterprise	Cereal and horticultural crop production
Details of enterprise	Farming and development of farm business in an area of 105 Acres, growing Beetroot (Red) with a production of 3000 tonnes and productivity: 15 tonnes/ acre .
Approximate turnover per year	Rs 343.20 Lakh
Approximate net profit per year	Rs 162.22 Lakh
Number of persons employed	70

Name of the student entrepreneur	**Mr Diwakar, R. V**
Contact details	No. 46, Katha No. 144 , Amatra academy road, Sarjapura road Banglore -560027
Email ID and contact number	wesproutlandscapers@gmail.com, 980538733
Name of the University	University of Agricultural Sciences, Karnataka
Name of college and university	College of Agriculture, Bangalore
Year of passing	2013
Experiential Learning programme attended	Yes
Title of enterprise and year of start	Wesproutland Scrapers OPC. Pvt ltd. 2017
Nature of enterprise	Landscaping and vertical farming
Details of enterprise	Landscaping , Gardening, Hydroponics, Terrace Gardening, Vertical Garden, Waste Management and supply of planting material
Approximate turnover	Rs 12.00 lakh
Approximate net profit per year	Rs 6.00 lakh
Number of Persons Employed	3




Name of the student entrepreneur	**Mr Gaurang Bhesania**
Contact details	Street No. 2/ Nr. GarbiChowk, Jin Ploat, Bhesan
Email ID and mobile number	bgaurang677@gmail.com, 8141911145
Name of the university	Junagadh Agricultural University, Junagadh, Gujarat
Name and address of college	College of Agricultural Engineering and Technology, Junagadh
Year of passing	2018
Experiential learning programme attended	Yes
Title of enterprise and year of start	Organic Farming 2018
Nature of enterprise	Organic farming
Details of enterprise	Organic Farming, Mulching
Approximate turnover	Rs 3.00 Lakh
Approx.net profit per year	Rs 2.00 Lakh
Number of persons employed	4

Name of the student entrepreneur	**Mr. Gaurav Devada**
Contact details	Nand ramji devada, village- Rajpura, Post- Amjhera District- Dhar
Email ID and Mobile number	gouravdevada1991@gmail.com, 9424003241
Name of the University	Jawaharlal Nehru Krishi Vishwa Vidhyalaya, Jabalpur Madhya Pradesh
Name and address of college	College of Agriculture, Tikamgarh
Year of passing	2015
Experiential Learning programme attended	Yes
Title of enterprise and year of start	AgroP4D 2017
Nature of enterprise	Protected cultivation and nursery production**.**
Details of enterprise	A group of student doing work on fresh mushroom and nursery production at Indore city has developed a chain for supply of the material in government and public sector smoothly and they also engaged lots of people in this work and provide employment by entrepreneurship.
Approximate turnover	Rs 8.00 Lakh
Approximate net profit per year	Rs 5.00 Lakh
Number of persons employed	5

Name of the student entrepreneur	**Mr Hardik Virani**
Contact details	Jyot Export Bypass Chokdi, SabalpurJunagadh - 362001
Email ID and mobile number	hardikvirani15@gmail.com, 8128349528
Name of the university	Junagadh Agricultural University, Junagadh, Gujarat
Name and address of college	College of Agricultural Engineering and Technology, Junagadh
Year of passing	2012
Experiential learning programme attended	Yes
Title of enterprise and year of start	Jyot Export 2014
Nature of enterprise	Peanut processing
Details of enterprise	Peanuts processing and marketing
Approximate turnover	Rs 100.00 Lakh
Approx.net profit per year	Rs 20.00 Lakh
Number of persons employed	10

Name of the student entrepreneur	**Mr. Karun Kashya**
Contact details	#1394, Sukhram Nagar, Field Ganj, Ludhiana.
Name of the University	Punjab Agricultural University, Ludhiana, Punjab
Name of College	College of Agriculture, Ludhiana
Year of passing	2017
Experiential Learning programme attended	Yes
Title of enterprise and year of start	Bharat Agro Foods 2017
Nature of enterprise	Food and Beverage production
Details of enterprise	Food and Beverage production in an area of 600 sq. ft. (Capacity of processing: 250 l per day) of raw juice from fruits and vegetables.
Approximate turnover (Rs)	Rs 10.00 Lakh
Approximate net profit per year (Rs)	Rs 4.00 Lakh
Number of persons employed	5

Name of the student entrepreneur	**Mr. Himanshu Dixit**
Contact details	616/83, Basant Biahr Colony, Thana Madiyava, Lucknow, 226021
Email ID and mobile number	Jay-shri-ramparivar2016@gmail.com, 9565582819
Name of the university	Banda University of Agriculture and Technology, Banda, Uttar Pradesh
Name and address of college	College of Horticulture, Banda
Year of passing	2018
Experiential learning programme attended	Yes
Title of enterprise and year of start	Vedanta Ayurveda Sans than 2018
Nature of the enterprise	Food Processing Industry
Details of the enterprise	The enterprise is situated in Lucknow and deals with the seasonal fruits like mango, guava, papaya, apple, ginger, aonla, tomato for manufacturing of different processed products like beverages, pickles, laddoo, fruit leather, ketchup, chutney, preserves etc. Local fruits like wood apple and bael are used for the product manufacturing, manufacturing and marketing of wheat daliya, powdered spices, turmeric etc. The products are supplied in different areas of Banda, Chitrakoot, Jhansi, Lucknow, Allahabad, Firozabad, Sitapur, Barabanki, Kanpur, Unnav and Banaras.
Approximate turnover	Rs 5.00 Lakh
Approx. net profit	Rs 2.50 Lakh
Number of persons employed	15

Name of the student entrepreneur	**Ms Khushboo Sharma**
Contact details	7737201610
Email ID and Mobile Number	khush02sharma@gmail.com, 7737201610
Name of the University	Maharana Pratap University of Agriculture & Technology, Udaipur, Rajasthan
Name and Address of College	College of Home Science, Udaipur
Year of Passing	2013
Experiential learning programme attended	Yes
Title of enterprise and year of start	Khusboo's Boutique 2014
Nature of enterprise	Boutique and garment production
Details of enterprise	Boutique and garment production Ms. Khushboo Sharma started her career as a freelance designer in 2013 and now successfully running a boutique at Udaipur. Her designs are very much appreciated and she is doing an excellent work in the field of Apparel designing. Launched in 2014, "Khusboo's Boutique" has a very stylish and affordable selection of clothing.
Approximate turnover	Rs 8.40 Lakh
Approx. net profit	Rs 4.20 Lakh
Number of persons employed	6

Name of the student entrepreneur	**Mr. Kiran Eknath Shewale**
Contact details	At Post : Tehere tal Malegaon Distt: Nashik
Email Id and Mobile no.	kshewale484@gmail.com, 9822339964
Name of the University	Mahatma Phule Krishi Vishwavidyalaya, Rahuri, Maharashtra
Name of the College	Dr.Ulhas Patil College of Agril., Jalgaon
Year of passing	2010
Experiential learning programme attended	Yes
Title of enterprise and year of start	Green Leaf Biotech 2016
Nature of enterprise	Biofertilizer and Biopesticide production
Details of enterprise	Metarhizium, Verticillium and Trichoderma production
Approximate turnover	Rs 8.00 Lakh
Approximate net profit per year	Rs 2.50 Lakh
Number of persons employed	3

Name of the student entrepreneur	**Mr Kiritbhai Bhailalbhai Patel**
Contact details	Flat 202,2nd Floor, Suryadev Apt, Mahadevnagar Coop Soc, Nr Sardar Stadium, Navrangpura, Ahmedabad-380014
Email ID and mobile number	flavidairysolutions@gmail.com
Name of the university	Anand Agricultural University, Anand Gujarat
Name and address of college	SMC College of Dairy Science, Anand
Year of passing	2004
Experiential learning programme attended	yes
Title of enterprise and year of start	Dairy Solutions, 2015
Nature of enterprise	Consultancy services
Details of enterprise	Dairy/Food projects consultancy in Turn Key projects, Products development, Plant capacity expansion, Value addition projects, Process mechanization, Energy Audits, Optimization of resource consumption, Skilled manpower resources and sourcing of ingredients and packaging materials for Dairy foods.
Approximate turnover	Rs 300.00 Lakh
Approx.net profit per year	Rs 140.00 Lakh
Number of persons employed	8

Name of the student entrepreneur	**Mr Lokesh Wadde**
Contact details	Post: Kalwadi, Tq: Bhalki, Dt: Bidar-585328
Email ID and contact number	lokeshsumit331@gmail.com, 8015130857
Name of the University	University of Agricultural Sciences, Raichur, Karnataka
Name of the College	College of Agricultural Engineering, Raichur
Year of Passing	2013
Experiential learning programme attended	Yes
Title of enterprise and year of start	Dealership of swaraj tractor 2015
Nature of enterprise	Tractor and farm implements
Details of enterprise	Sales and Service of Shweta Swaraj tractor
Approximate turnover	Rs 800.00 Lakh
Approximate Net Profit per Year	Rs 70.00 Lakh
Number of persons employed	24

Name of the student entrepreneur	**Ms Madhuka Malhotra**
Contact details	96, Paratap Colony, Near National Laboratory, Kocher Market, Ludhiana.
Mobile	9646320303
Name of the University	Punjab Agricultural University, Ludhiana, Punjab
Name of College	College of Home Science, Ludhiana
Year of passing	2015
Experiential Learning programme attended	Yes
Title of enterprise and year of start	Couture Addiction 2016
Nature of enterprise	Textile and clothing
Details of enterprise	Production of garments, Western outfits and ethnic wear
Approximate turnover (Rs)	Rs 4.20 Lakh
Approximate net profit per year (Rs)	Rs 0.84 Lakh
Number of persons employed	1

Name of the student entrepreneur	**Mr Maguluru Muniraja**
Contact details	M.R Agro enterprises,East street, Venkatagiri, Nellore District
Email I.D and Mobile number	muninaidu019@gmail.com, 7032009164
Name of the University	Acharya N.G. Ranga Agricultural University, Guntur, Andhra Pradesh
Name and address of the college	S.V Agricultural College, Tirupathi
Year of passing	2013
Experiential learning programme attended	Yes
Title of enterprise and year of start	M.R Agro enterprises 2017
Nature of enterprise	Agri-input dealer
Details of enterprise	Dealing in sale of seeds (primarily paddy seed), vegetable, water melon etc., top brands in fertilizer and pesticides. Started with just 200 regular customers from 45 villages and 100 occasional customers, now expecting more than 500 farmers in and around Venkatagiri.
Approximate turnover	Rs 100.00 Lakh
Approximate net profit per year	Rs 20.00 Lakh
Number of persons employed	3

Name of the student entrepreneur	**Ms Manjunath V.**
Contact details	1426, Ist cross, 8th main, Judicial layout, next to GKVK campus , Bengaluru- 560 065
Email ID and contact number	manjunath0391@gmail.com, 8867569368
Name of the University	University of Agricultural Sciences, Karnataka
Name of college and university	College of Agriculture, Bangalore
Year of passing	2013
Experiential Learning programme attended	Yes
Title of enterprise and year of start	Urban lungs Pvt. Ltd. 2018
Nature of the enterprise	Agribusiness
Details of the enterprise	Landscaping and Gardening, procurement of fruits and vegetable from farmers and and supply to the hostels, other vendors, sales in their outlet
Approximate turnover	Rs 60.00 Lakh/ year
Approximate net profit per year	1 percent
Number of Persons Employed	2

Name of the student entrepreneur	**Dr Mithun D. Khatariya**
Contact details	Dog Care Hospital, Oppo. 2nd Gate of Agriculture University, Motibaug, Junagadh, Gujarat-362001
Email ID and mobile number	drmithun9@gmail.com, 7777989222
Name of the university	Junagadh Agricultural University, Junagadh, Gujarat
Name and address of college	College of Veterinary Science and A. H., Junagadh
Year of passing	2015
Experiential learning programme attended	Yes
Title of enterprise and year of start	Pet (pups) production, Pet spa, Pet boarding 2015
Nature of enterprise	Pet production and veterinary clinic
Details of enterprise	Dog Care Hospital carrying out dog beautification like bathing, grooming, nail cutting, deworming, vaccination, dental scaling etc. It has a well-equipped and well-maintained clinic.
Approximate turnover	Rs 6.00 Lakh
Number of persons employed	2

Name of the student entrepreneur	**Dr. Manoj Kumar, H.B.**
Contact details	H. Kodihally, Mandya Taluk, Mandya District
Email ID and contact number	9964663850
Name of the University	University of Agricultural Sciences, Karnataka
Name of the college	College of Agriculture, Bangalore
Year of Passing	2013-14
Experiential Learning programme attended	Yes
Title of enterprise and year of start	Agri-Business Center 2018
Nature of enterprise	Goat, Sheep, Poultry rearing and marketing
Details of enterprise	Seven acres of land being utilized for goat, ship, poultry rearing and forage crops.
Approximate turnover	Rs 10.00 lakh
Approximate net profit per year	Rs 5.00 lakh
Number of Persons Employed	10

Name of the student entrepreneur	**Mr Milind Digambar Patil**
Contact details	A/P. Pinguli, Opposite Don Bosco Industrial Training Institute (I.T.I.), Tembdhuri Nagar, Kudal Taluka, Sindhudurg District, Maharashtra (India) 416528
Email ID and mobile number	sahyadribamboo@gmail.com, 9130837602, 9421155406
Name of the university	Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli
Name and address of college	College of Forestry, Dapoli, Dist. Ratnagiri
Year of passing	M.Sc. Forestry (2016)
Experiential learning programme attended	Yes
Title of enterprise and year of start	Sahyadri Bamboo Nursery 2016
Nature of the enterprise	Nursery Management
Details of the enterprise	The bamboo nursery was started through initial assistance of Rashtriya Krishi Vikas Yojana (RKVY) in June 2016. The nursery was established especially for the propagation of quality planting material of bamboo *Dendrocalamus stocksii.* The total area of nursery, including mother plantation is one acre which includes a shade net house, hardening shades, and nursery office and store house. The capacity of nursery to produce bamboo saplings per year is 5000 plants.
Approximate turnover	Rs 2 - 3 lakh
Approx.net profit per year	Rs 1.50 lakh
Number of persons employed	2

Name of the student entrepreneur	**Mr Nithin, N**
Contact details	No. 303, 6th cross 3rd main, near Royal school circle , opposite to Swathi building, Piteel Balarammiaha circle Anjani extension Chintamani -563 125
Email ID and contact number	Birdof_paradise087@gmail.com, 9740575592
Name of the University	University of Agricultural Sciences, Karnataka
Name of college and university	College of Agriculture, Bangalore
Year of passing	2015
Experiential Learning programme attended	Yes
Title of enterprise and year of start	Bird of paradise consultancy services 2017
Nature of the enterprise	Consultancy
Details of the enterprise	Project report preparation and consultancy services
Approximate turnover	Rs 8.00 lakh/ year
Approximate net profit per year	10 - 15 percent
Number of Persons Employed	4

Name of the student entrepreneur	**Ms. Neetu Chopra**
Contact details	7737677150
Email ID and Mobile Number	nitanjuevents@rediffmail.com, 7737677150
Name of the University	Maharana Pratap University of Agriculture & Technology, Udaipur, Rajasthan
Name and Address of College	College of Home Science, Udaipur
Year of Passing	2011
Experiential learning programme attended	Yes
Title of enterprise and year of start	Nitanju Events 2013
Nature of enterprise	Event Management services
Details of enterprise	This includes-Wedding planner/management, Celebrity and artist management, Corporate and social responsibility, Promotional events, Institutional and others and exclusive dance, fitness and martial arts studio.
Approximate turnover	Rs 6.00 Lakh
Approx. net profit	Rs 3.00 Lakh
Number of persons employed	68

Name of the student entrepreneur	**Mr Nithin J. G.**
Contact details	Kiranam, Poonkavila, Uchakkada PO Thiruvananthapuram - 695506
Email ID and mobile number	nithinjohnson@gmail.com, 9497184511
Name of the university	Kerala Agricultural University, Thrissur, Kerala
Name and address of college	Kelappaji College of Agricultural Engineering and Technology, Malappuram
Year of passing	2014
Experiential learning programme attended	Yes
Title of enterprise and year of start	Urvara Jaiva Sangham 2019
Nature of the enterprise	Integrated Farming System
Details of the enterprise	The enterprise includes mixed farming, organic farming, poultry and goat rearing, ornamental fisheries and agricultural organic inputs
Approx.net profit per year	Rs 1.50 Lakh
Number of persons employed	5 part time employees
Any other relevant information	Holding a 5 ha farm in Kulathurpanchayath of Trivandrum district of Kerala. He was awarded the Best Young Farmer Award Kulathurpanchayath in 2016 and many recognitions at local level for his achievements. His field was selected as demonstartion plot and is running a successful farm enterprise. His success story was telecasted by Doordarsahan (Krishi Darshan in Malayalam)

Name of the student entrepreneur	**Mr. Nitin Kumar**
Contact details	#73, Arjun Vihar, Gokul Road, Hubli - 580030
Email ID and mobile number	infor@darvigroup.com, 09986980777
Name of the university	University of Agricultural Sciences, Dharwad, Karnataka
Name and address of college	College of Forestry, Sirsi
Year of passing	2017
Experiential learning programme attended	Yes
Title of enterprise and year of start	Darvi Group 2017
Nature of enterprise	Agri startup
Details of enterprise	The general goals of this enterprise are to convert dry lands into profit making plantation, educating farmers about organic farming practices, offering best marketing solutions to farm produce and promote agro-forestry as a business model. Within a year of establishment of his start up, he could make a network of over 350 farmers, plantation owners and organic cultivators. Today about 80 acres of agro forestry system consisting of sand alwood + *Melia dubia* + Groundnut has been planted through his interventions in the northern Karnataka region. He has adapted all the principles learnt during the four year period to establish the agro-forestry systems. Further, over 2.5 tons of organic pomegranates has been procured from the farmers and marketed as "ready to eat" item through a chain of departmental Stores.
Approximate turnover	1. Agro-forestry systems yet to yield 2. 2.5 tons of Organic pomegranates

Name of the student entrepreneur	**Mr Palle Venkateswarlu**
Contact details	Shop No:9, Sindhura complex, Orvakal mand al, Kurnool District
Email I.D and Mobile number	venkyagrico88@gmail.com, 9441898807
Name of the University	Acharya N.G. Ranga Agricultural University, Guntur, Andhra Pradesh
Name and address of the college	S.V Agricultural College, Tirupathi
Year of passing	2013
Experiential learning programme attended	Yes
Title of enterprise and year of start	Oxa Agritech 2017
Nature of enterprise	Agriculture knowledge center and pesticides sales
Details of enterprise	Dealing in sale of micronutrients pesticides , consultancy to farmers to reduce the cost of cultivation as well as to maintain ecological balance.
Approximate turnover	Rs. 5 lakh
Approximate net profit per year	Rs. 1.00 lakh

Name of the student entrepreneur	**Mr. Paras Kushwaha**
Contact details	75/175, Subzi Mand i, Badshahinaka, Kanpur-208001, UP
Email ID and mobile number	sand ipkushwaha272616@gmail.com, 9936949406
Name of the university	C.S. Azad University of Agri. and Tech., Kanpur, Uttar Pradesh
Name and address of college	College of Agriculture, Kanpur
Year of passing	2013
Experiential learning programme attended	Yes
Title of enterprise and year of start	Paras Agri Seeds 2016
Nature of the enterprise	Agri-enterprise
Details of the enterprise	Seed Production and Seed Trading
Approximate turnover	Rs 10.00 Lakh
Approx. net profit	Rs 5.00 Lakh
Number of persons employed	6

Name of the student entrepreneur	**Dr. Patric Joshua**
Contact details	No: 125.M.S.Nagar,Kundrathur Main Road, Porur,Chennai-116
Email ID and mobile number	drpatric@gmail.com, 8870839711
Name of the university	Tamil Nadu Veterinary and Animal Sciences University, Chennai, Tamil Nadu
Name and address of college	Veterinary College and Research Institute, Namakkal- 637 000 Tamil Nadu
Year of passing	2011
Experiential learning programme attended	Yes
Title of enterprise and year of start	Porur Pet shop cum clinic, Chennai 2014
Nature of enterprise	Pet food and livestock feed sale outlet
Details of the enterprise	Pet food cum livestock feed additives sale outlet was established around 800 sq. feet. Pet clinic about 600 sq. feet as attached with the sales outlet.
Approximate turnover	Rs 19.0 Lakh
Approx.net profit per year	Rs 6.0 Lakh
Number of Persons Employed	3

Name of the student entrepreneur	**Dr. S. Sangeetha**
Contact details	W/o G.Senthilkumar 3/134, MoolakolaiKottayee Village,Thimmannapuram (P.O), Krishnagiri (TK), Krishnagiri (DT). Tamil Nadu 635112
Email ID and mobile number	sangeethasenthil106@gmail.com, 8344580731
Name of the university	Tamil Nadu Veterinary and Animal Sciences University, Chennai, Tamil Nadu
Name and address of college	Madras Veterinary College, Vepery, Chennai
Year of passing	2014
Experiential learning programme attended	Yes
Title of enterprise and year of start	M/s Sangeetha desi chicken farming and hatchery 2013
Nature of the enterprise	Poultry business
Details of the enterprise	Desi chicken farming and hatchery
Approximate turnover	Rs 5.00 Lakh
Approx.net profit per year	Rs 0.60 Lakh
Number of persons employed	3
Any other relevant information	The enterprise ensures subsidiary income along with private practice in large animals.

Name of the student entrepreneur	**Mr Rajeev S.**
Contact details	#3397, Arula Arcade Ring Road, Dattagalli 3rd stage Kanakadajanagar, Mysore
Email ID and mobile number	9686112279
Name of the university	University of Agriculture Sciences, Bangalore, Karnataka
Name and address of college	College of Agriculture, Hassan
Year of passing	2010-11
Experiential learning programme attended	Yes
Title of enterprise and year of start	Corporate forestry 2015
Nature of the enterprise	Agri business
Details of the enterprise	Research, Skill & Entrepreneurship, Rural development, Corporate Forestry
Approximate turnover	Rs. 500.00 lakh
Approx.net profit per year	Rs. 45.00 lakhs
Number of persons employed	9

Name of the student entrepreneur	**Mrs. Rajeshwari K.**
Contact details	No.274, 8th Main Road, 3rd Stage, 4th Block Basaveshwaranagar Bangalore Karnataka India 560079
Email ID and mobile number	consultrajeshwarik@gmail.com, 9902937373
Name of the university	University of Agricultural Sciences, Dharwad, Karnataka
Name and address of college	College of Community Science, Dharwad – 580005
Year of passing	2002
Experiential learning programme attended	Yes
Title of enterprise and year of start	Superkids learning systems Pvt. Ltd 2007
Nature of enterprise	Human development and family management
Details of enterprise	Start up Company for assessment of children on various developmental outcomes like psycho motor, cognitive socio emotional development etc., To provide superkids techniques to parents for maximizing child's all round development and to make the superkids infant development programme reach every child. Superkids trained children have won many laurels and awards in various competitions and one child is short listed for Guinness book of world records.
Approximate turnover	Rs 50.00 Lakh
Approx. net profit	Rs 18.00 Lakh
Number of persons employed	17

Name of the student entrepreneur	**Mr Ravikumar, N.S.**
Contact details	284, 11th cross, 3rd main, Kirloskar layout , Hesaraghatta main road, Bengaluru
Email ID and contact number	ravishashi.kumar12@gmail.com, 8088881221
Name of the University	University of Agricultural Sciences, Karnataka
Name of the college	College of Agriculture, Bangalore
Year of passing	2010
Experiential Learning programme attended	Yes
Title of enterprise and year of start	Leon fertilizers Pvt. Ltd. 2017
Nature of the enterprise	Fertilizers Company
Details of the enterprise	Fertilizer & Pesticides
Number of Persons Employed	5

Name of the student entrepreneur	**Mr Sachin Kashid**
Contact details	A/p: Sonand Tq: Sangola, Dt: Solapur
Email ID and contact number	skashid110@gmail.com, 9923628210
Name of the University	University of Agricultural Sciences, Raichur, Karnataka
Name of the College	College of Agricultural Engineering, Raichur
Year of Passing	2013
Experiential learning programme attended	Yes
Title of enterprise and year of start	Techstone Industries, Omkar Industries 2018
Nature of enterprise	Manufacturing of farm implements
Details of enterprise	Manufacturing of agricultural machinery like chaff cutter, sprayer and farm implements
Approximate turnover	Rs 200.00 Lakh
Approximate Net Profit per Year	Rs 35.00 Lakh
Number of persons employed	10

Name of the student entrepreneur	**Mr. Sagar Kumar Sharma**
Contact details	H. No. 1, Ward No. 8, Kalyan Ji Gate, Gangapur City, Rajasthan.
Email ID and mobile number	sharmasagar010@gmail.com, 9509721738
Name of the university	Swami Keshwanand Rajasthan Agricultural University, Bikaner, Rajasthan
Name and address of college	College of Agriculture, Bikaner
Year of passing	2013
Experiential learning programme attended	Yes
Title of enterprise and year of start	Sagar Agro Industries 2015
Nature of the enterprise	Agri enterprise
Details of the enterprise	Seed Production and Marketing
Approximate turnover	Rs 185.00 Lakh
Approx. net profit	Rs 18.50 Lakh
Number of persons employed	12

Name of the student entrepreneur	**Mr. Sandeep Kumar**
Contact details	Nr. Saurashtra perfumery Danapith, Bhavanagar 364001
Email ID and mobile number	Info@ebsnaturelight.com, 9724911911, 8980213956
Name of the university	Maharana Pratap University of Agriculture & Technology, Udaipur, Rajasthan
Name and address of college	College of Dairy and Food Science Technology, Udaipur
Year of passing	2014
Experiential learning programme attended	Yes
Title of enterprise and year of start	Engineer Brother's Nature Light 2016
Nature of enterprise	Consultancy and product Development
Details of enterprise	Mainly involved in Ice-cream and Food stabilizer manufacturing. Provide consultancy in Dairy products, Different types of ice-cream, Beverages, Recipe development, Value addition in foods, ISO certification, Plant setup - suggest machinery in new food factories, Solution of all types of food related problems and Packaging and labelling of food products.
Approximate turnover	Rs 25.00 Lakh
Approx.net profit per year	Approx 30%
Number of persons employed	15

Name of the student entrepreneur	**Mr. Santosh Pagad**
Contact details	At post: Kotabal Taluk: Ron, District: Gadag
Email ID and mobile number	9844677849
Name of the university	University Of Agricultural Sciences, Dharwad, Karnataka
Name and address of college	College of Agriculture, Dharwad
Year of passing	2012
Experiential learning programme attended	Yes
Title of enterprise and year of start	Fodder Entrepreneur
Nature of enterprise	Fodder production
Details of enterprise	He has taken up agri- entrepreneurial activates on fodder and fodder seed production in his own field as well as out sources the production in other farmers field. He recalls the confidence of RAWE programme instilled in him through orientation classes, visits made to progressive farmers field, agricultural organizations and agro based industries to take an independent enterprise. Further he has been awarded as "**Shreshta Yuva Krushika**" by UAS Dharwad during the year 2017 for his accomplishments and services to farming community. He has become model to other youngsters to become an entrepreneur.

Name of the student entrepreneur	**Er. Saravanakumar**
Contact details	Pearl House, 114, Bright Colony, Xavier's Colony Ext, Malapallayam, Thirunelveli
Email ID and mobile number	agencypearl@gmail.com, 8825847884
Name of the university	Tamil Nadu Veterinary and Animal Sciences University, Chennai, Tamil Nadu
Name and address of college	College of Food and Dairy Technology, Alamathi, Chennai
Year of passing	2012
Experiential learning programme attended	Yes
Title of enterprise and year of start	Pearl Food Chain 2014
Nature of the enterprise	Trader
Details of the enterprise	He is super stockist for dairy and food products
Approximate Turnover	Rs.600.00 Lakh/ year
Approx.Net Profit	Rs. 36.00 Lakh/ year
Number of Persons Employed	12

Name of the student entrepreneur	**Ms Sejani Viraj**
Contact details	Prasad Dairy Products 1, Nr. Poonam Crane, Saragvada Road, Junagadh - 362001
Email ID and mobile number	virajsejani@gmail.com, 9033234801
Name of the university	Junagadh Agricultural University, Junagadh
Name and address of college	College of Agricultural Engineering and Technology, Junagadh
Year of passing	2014
Experiential learning programme attended	Yes
Title of enterprise and year of start	Prasad Dairy Products 2016
Nature of enterprise	Dairy processing
Details of enterprise	Milk and Milk Products manufacturer
Approximate turnover	Rs 5.00 Lakh
Approx.net profit per year	Rs 0.50 Lakh
Number of persons employed	4

Name of the student entrepreneur	**Mr Shah Umang**
Contact details	Green Tech Solution A/4, Bhurabhai Complex, Nr. Panjub House, Opp. Ujala Circle, Sarkhej Road, Ahmedabad - 372210
Email ID and mobile number	greentechsolution366@gmail.com, 9429220366
Name of the university	Junagadh Agricultural University, Junagadh, Gujarat
Name and address of college	College of Agricultural Engineering and Technology, Junagadh
Year of passing	2011
Experiential learning programme attended	Yes
Title of enterprise and year of start	Green Tech Solution 2018
Nature of enterprise	Consultancy services
Details of enterprise	Solar Project, LED Acid Battery, Contract Farming etc.
Approximate turnover	Rs 5.50 Lakh
Approx.net profit per year	Rs 0.55 Lakh
Number of persons employed	4

Name of the student entrepreneur	**Mr Somesh Shedabale**
Contact details	A/P: Nerli, Tq. Hukkeri, Dist: Belgaum-591340
Email ID and contact number	someshshedabale@gmail.com, 8971659373
Name of the University	University of Agricultural Sciences, Raichur Karnataka
Name and address of college	College of Agricultural Engineering, Raichur
Year of Passing	2016
Experiential learning programme attended	Yes
Title of enterprise and year of start	Agro machinery sales, 2018
Nature of enterprise	Farm and farm implement sales
Details of enterprise	Dealer in Sonalika Tractor Sales, Spares and Service
Approximate turnover	Rs 350.00 Lakh
Approximate Net Profit per Year	Rs 20.00 Lakh
Number of persons employed	20

Name of the student entrepreneur	**Mr Thansingh Sinha**
Contact details	7771835099
Email ID and mobile number	sinhathansingh@gmail.com, 7771835099
Name of the university	Chhattisgarh Kamdhenu University, Durg, Chhattisgarh
Name and address of college	College of Fisheries, Kawardha (C.G.)
Year of passing	2015
Experiential learning programme attended	Yes
Title of enterprise and year of start	Sinha Fish Care and Seed Centre, 2015
Nature of enterprise	Breeding and Rearing of Ornamental and Mangur fishes
Details of enterprise	Breeding and rearing of ornamental and mangur fishes (Cat fish), Aquarium fabrication, Carp rearing in 5 acre area with production of 2.5 MT. Production and Marketing of by product fish pickle, fish vappar, fish bowl, fish cutlet.
Approximate turnover	Rs 7.00 Lakh
Approx. net profit	Rs 5.00 Lakh
Number of persons employed	17

Name of the student entrepreneur	**Mr. Vaylu Keyur N.**
Contact details	Plot G-11, B/H Home Shree Agro, MIDC, Awdhan, Maharastra
Email ID and mobile number	keyurvaylu286@gmail.com, 9824737525
Name of the university	Anand Agricultural University, Anand, Gujarat
Name and address of college	College of Food Processing Technology & Bio-Energy, Anand
Year of passing	2017
Experiential learning programme attended	Yes
Title of enterprise and year of start	Classic Food (Year 2012)
Nature of the enterprise	Food Processing
Details of the enterprise	Onion dehydration industry
Approximate turnover	Rs 900.00 Lakh
Approx. net profit	Rs 270.00 Lakh
Number of persons employed	60

Name of the student entrepreneur	**Mr Vinay Kumar N.G**
Contact details	Basaveshwara Swamy Chawki Centre Nallapanahalli (V), Devanahalli (T) Bangalore Rural (D)
Email ID and mobile number	vinusticky@gmail.com, 99163 23895
Name of the university	University of Agricultural Sciences, Bangalore, Karnataka
Name and address of college	College of Sericulture, Chintamani-563 125
Year of passing	2006
Experiential learning programme attended	Yes
Title of enterprise and year of start	Silk production and integrated farming system 2010
Nature of enterprise	Rearing early age silkworms (Chawki worms) and supplying to farmers for further rearing
Details of the enterprise	Practicing and demonstrating integrated sericulture based farming system with goat and sheep rearing along with dairy.
Approximate turnover	Rs 125.00 lakh
Approx. net profit	Rs 25.00 lakh
Number of Persons Employed	7

Name of the student entrepreneur	**Mr Vinay Raj D.J.**
Contact details	S/o Jyanaprakash, Dasapura, Akkanahalli cross, Channarayapatna taluk, Hassan Dist.
Email ID and mobile number	vinayrajdas@gmail.com, 9108045517
Name of the university	University of Agriculture Sciences, Bangalore, Karnataka
Name and address of college	College of Agriculture, Hassan
Year of passing	2011-12
Experiential learning programme attended	Natural resource management
Title of enterprise and year of start	Piggery Farm Unit 2018
Nature of the enterprise	Piggery Farm Unit
Details of the enterprise	Pig and piglet production
Approximate turnover	Rs 5.00 lakh
Approx.net profit per year	Rs 3.00 lakh
Number of persons employed	10

Name of the student entrepreneur	**Mr. Yagnik P. Ladani**
Contact details	Po. Ganthila, Ta. Vanthali, Dist. Junagadh.
Email ID and mobile number	yagnikladani999@gmail.com, 87588 09196
Name of the university	Anand Agricultural University, Anand, Gujarat
Name and address of college	College of Food Processing Technology & Bio-Energy, Anand
Year of passing	2016
Experiential learning programme attended	Yes
Title of enterprise and year of start	Vraj Milk Product 2018
Nature of the enterprise	Dairy Processing
Details of the enterprise	Procurement and pasteurization of milk, manufacturer of milk poly pouch, also deal with milk product like butter milk, butter & sweets
Approximate turnover	Rs. 200.00 Lakh
Approx.net profit per year	Rs. 50.00 Lakh
Number of persons employed	25

Name of the student entrepreneur	**Mr Yash K. Jasani** and **Mr Hardik H. Vachhani**
Contact details	A-307, Orchid Centre, Opp. Safal Parisar, Off S.P Ring Road, South Bopal, Ahmedabad- 380058
Email ID and mobile number	yash.caet@gmail.com, yash@greencountry.in, +91 99099 68428, hardik@greencountry.in, +91 98981 89922
Name of the university	Junagadh Agricultural University, Junagadh, Gujarat
Name and address of college	College of Agril. Engg.and Tech, Junagadh
Year of passing	2011-12
Experiential learning programme attended	Yes
Title of enterprise and year of start	Green country agricultural and technical services
Nature of enterprise	Agri advisory and consultancy services
Details of enterprise	Landscape irrigation, Water management services, Protected cultivation, Agricultural consultancy, Agronomical services, Geographical survey and mapping, Designing and installation of effective custom irrigation with emphasis on providing exceptional customer service. Supply of agricultural inputs, Protected structures (Green House-Poly House/ Shade net House) and Farm requisites. Supply of agricultural, Irrigation / Irrigation automation and Processing equipment. Agricultural and rural development engineering. Turn-key Agribusiness project design, Structuring and implementation. Management Services for agricultural projects. Scoping reports, Feasibility studies and business plans. Surveying and mapping of Irrigation Field through GPS (Agricultural and Land scape Fields), Station Survey. Seed plotting services for Seed processors companies. Geo-fence survey and verification of plots with agricultural equipment's installed.
Approximate turn over	Rs 400.00 Crore / Year
Number of persons employed	24

Indian Council of Agricultural Research (ICAR)
New Delhi
Website: www.icar.org.in