



Institutional Development Plan of Tamil Nadu Veterinary and Animal Sciences University Progress Report (April '18 to March '19): National Agricultural Higher Education Project (NAHEP)



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TAMIL NADU VETERINARY AND ANIMAL SCIENCES UNIVERSITY

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I. Executive summary

1. NAHEP Project Objective

The Institution Development Plan (IDP) functioning at Tamil Nadu Veterinary and Animal Sciences University was developed to focus on improving the curriculum with modern pedagogical tools to facilitate the students to learn at their convenience and to possess multiple skills. To achieve this, under IDP of TANUVAS, it was planned to develop open knowledge hubs, quality open contents, skill development centres, learning and assessment centre, entrepreneurship development cell, senior residency programmes, knowledge sharing by industry and alumni. Further, the quality of faculty will be improved through faculty development programmes in niche areas of education technology. In this regard, four objectives were proposed under IDP of TANUVAS. First objective was to focus on curriculum improvement through outcome based learning, improved pedagogy and identification of day one skills. The second and third objectives was to focus on development of open knowledge hubs and skill development respectively. The final one was to focus on networking with alumni and global institutions to develop the institution in international arena. For every objective 3-5 well defined programmes was identified with monitorable targets. The functioning of IDP at TANUVAS ensures successful development of the institution.

2. Progress made during period

The progress made across each components of NAHEP during Nov'18 to March'19 is provided.

Component 1a: Support to Institutional Development Plan (IDP) of AUs

During the period between November '18 and March '19, bank approval through STEP for purchase of goods for smart classrooms, civil work for modernization of classrooms and purchase of laboratory equipment were done. Upon Bank's approval, quotations from dealers for the purchase of goods (smart TV – 43", smart TV – 75", HD video recorder, HD XDR Camcorder and interactive smart boards) were received through RFQ mode and were evaluated for price and quality. Two international training on "Content development" was organised at MVC Chennai and VCRI Namakkal for a total of 60 faculty working in MVC Chennai, VCRI Namakkal and CFDT Koduveli. This international faculty training was conducted by two resource persons from Royal Veterinary College, London. A total of 8 trainings on "Soft skills and communication" was organised in which 800 undergraduate students of MVC Chennai and CFDT Koduveli were benefitted.

3. Monitoring and Evaluation

Objective	Activity	Expected outcome	Monitoring Mechanism	Indicator	Done by	When	Monitoring Linkage
1.	Pedagogy	Outcome based	On-site review and	E modules, mobile apps	University and	Annua	1. Academic reputation in the

Objective	Activity	Expected outcome	Monitoring Mechanism	Indicator	Done by	When	Monitoring Linkage
	development and evaluation system	learner centric curriculum	analysis or report	and podcasts of open content, online examination system	ICAR	I	form a. Top 500 institutions in QS Global Ranking b. Top 5 institutions in ICAR SAU Ranking c. Top 10 institutions in UGC NIRF Ranking 2. Number of start-ups by students 3. Student retention ratio 4. Number of students placed in top 10% of companies 5. Faculty – Student ratio 6. Twinning programmes with US Land Grant Universities 7. Student research publications
	Faculty skill development			Faculty with improved skills in teaching, content development and management			
	Infrastructure for smart class			Number of Lecture Halls converted into Smart class rooms			
	Development of Apps			Android / iOS based Mobile Apps in 15 major subjects in UG programmes			
	Starting of Twinning programme and dual degrees			MVSc program coupled with MSc Veterinary Education			
2	Creation of OKE	Open knowledge environment to learn veterinary and animal sciences	1. On-site review and analysis or report 2. Feedback from other veterinary colleges	E modules, mobile apps and podcasts of open content	University and ICAR	Annual	1. Number of modules in open contents
	Creation of OKH			An OKH with open access to all veterinary colleges			
	Open data capacity			Faculty trained in quality			

Objective	Activity	Expected outcome	Monitoring Mechanism	Indicator	Done by	When	Monitoring Linkage
	building			content development and management			
3	Establishment of skill development laboratories	Students with enhanced skills and high employability	1. On-site review and analysis or report 2. Feedback from other veterinary colleges	Skill development laboratories in inculcating soft-skills in every college	University and ICAR	Annual	1. Employee preference for students 2. Access to data bank from other institutions
	Establishment of learning assessment centre			Learning Assessment Lab to evaluate the teaching efficiency of faculty and learning of students			
	Data bank creation			Case House consisting of documents on outbreaks, cases and problems and remedial measures in field conditions			
	Introduction of senior residential program			Senior residency programmes for advanced clinical and farm skills learning			
	Student Exchange programs			Exchange programmes on niche areas of veterinary and animal sciences			
4	Networking of global	A strong alumni supporte	On-site review and analysis or	Global network of alumni,	University and	Annual	1. Number of partners in global network

Objective	Activity	Expected outcome	Monitoring Mechanism	Indicator	Done by	When	Monitoring Linkage
	alumni & stakeholder	d education system	report	stakeholders and industry	ICAR		2. Number of faculty trained overseas on niche areas of education technology 3. Increase in financial resources through endowments, IPR and royalties 4. Number of faculty development programmes conducted by international faculty
	Developing prototype industry			Prototype industry models			
	Lifelong learning system creation						
	Creating animal business centre						
	Creating market intelligence system						

4. Plan ahead

Objectives	Activities	Year 3 (2019-20)				Year 4 (2020-21)			
		Q 1	Q 2	Q 3	Q 4	Q 1	Q 2	Q 3	Q 4
1	Pedagogy development and evaluation system								
	Faculty skill development								
	Infrastructure for smart class								
	Development of Apps								
	Starting of Twinning programme and dual degrees								
2	Creation of OKE								
	Creation of OKH								
	Open data capacity building								
3	Establishment of skill development laboratories								
	Establishment of learning assessment centre								
	Data bank creation								

Objectives	Activities	Year 3 (2019-20)				Year 4 (2020-21)			
		Q 1	Q 2	Q 3	Q 4	Q 1	Q 2	Q 3	Q 4
	Introduction of senior residential program								
	Student Exchange programs								
4	Networking of global alumni & stakeholder								
	Developing prototype industry								
	Lifelong learning system creation								
	Creating animal business centre								
	Creating market intelligence system								

II. Progress made during period - Component 1a: Support to Institutional Development Plan (IDP) of AUs

a. Output-outcome monitoring

S. No	Particulars ¹	April'18 to March'19		
		Plan	Achievement	Progress made during period (Elaboration)
1.	Number of new facilitative units established to enable academic and research infrastructure (IIIC- Industry Institution Interaction Cell / Start up cell / incubation cell / experiential learning unit / placement cell etc.)	<p>Infrastructure for smart class</p> <p>Establishment of skill development Laboratories</p> <p>Establishment of Learning Assessment Centre</p>	<p>Under Progress</p> <p>Under Progress</p> <p>Under Progress</p>	Procurement plan made through 'STEP' and the process has been initiated
2.	Number of pilot courses added / upgraded on communication skills, entrepreneurial skills, information processing, creative and innovative thinking, leadership skills, industry oriented courses etc.	<p>Student Skill Development Programme</p> <p>Faculty Skill Development Programme</p>	<p>800 UG students were trained in soft skill</p> <p>60 Faculties were trained in content Development</p>	<p>Eight training on soft skill and communication were conducted for UG students from MVC, CFDT and VCRI.</p> <p>Sixty faculties from MVC, CFDT and VCRI were trained by experts from Royal Veterinary College,</p>

¹ Add the numbers for component specific awarded AUs and fill the required fields accordingly. If there was no plan against any specific indicator during this period, it needs to be filled zero.

S. No	Particulars ¹	April'18 to March'19		
		Plan	Achievement	Progress made during period (Elaboration)
				UK
3.	Additional revenue generated through institutional activities with industries in INR lakhs	Nil	Nil	
4.	Revenue generated through public usage of infrastructure for academic activities in INR lakhs	Nil	Nil	
5.	Number of MoUs signed with industry for knowledge exchange programs/ internships / short term training programs etc.		Royal Veterinary College, UK Washington State University, USA Oklahoma State University, USA	MOU signed with three universities.
6.	Number of faculty exchange programmes (both national and international) initiated by AU	Faculty Exchange Programme (International) Workshop on Content Development National training in collaboration with NAARM	Four Faculties were selected and two Universities were identified for exchange programme during Sep. 2019. Staff from RVC, UK provided training to 60 faculties on content development Correspondence was made for the conduct of national training programmes on content development, facilitative teaching, market intelligence and IPR	The process of identifying faculties and universities were completed. Two workshops were conducted by adjunct faculties from RVC, UK.
7.	Number of student exchange programmes (both national and international) initiated by AU	Students Exchange Programme (International)	Six students were selected and two Universities were identified for internship programme during July 2019.	The process of identifying students and universities were completed.

b. Input and activity monitoring

Input / Activity indicator	Sub- head / category	Expenditure / input in INR lakhs		Justification ²
		Planned	Utilization	
Goods and equipment	Equipment, Plant & Machinery	-	-	
	Office equipment	-	-	
	Laboratory equipment	180	122.79	
	Furniture & fixtures	-	-	
	Computers and Peripherals	135	135	
	Books and Journals	20	10.77	
Civil works	Minor repair and renovation work	110	110	
Human capacity building ³	National level training	-	-	
	International level training	123.50	-	
	Short visit/ seminars	20	-	
	Meetings and workshops	20	-	
Consultancy	National level consultancies	20	-	
Recurrent cost / Miscellaneous	Travel	9.50	0.89	
	Contractual services	65.00	2.88	
	Operational costs	276	25.21	
	Institutional charges	25.38	25.38	
Total		1004.38	432.92	

S. No.	Particulars ⁴	Nov'18 to March'19		
		Plan	Achievement	Progress made during period
1.	Number of faculty exchange programmes (both national and international) initiated by AU	6 faculties International	4 faculties Selected for International exchange programme	The process of identifying students and universities were completed.

² Mention the physical numbers and specify the activities / purposes against each input category

³ Plz share the training details

⁴ Add the numbers for component specific awarded AUs and fill the required fields accordingly. If there was no plan against any specific indicator during this period, it needs to be filled zero.

S. No.	Particulars ⁴	Nov'18 to March'19		
		Plan	Achievement	Progress made during period
2.	Number of student exchange programmes (both national and international) initiated by AU	10 students International internship and 6 students for exchange programme for knowledge acquisition in advanced areas	Ten students were selected for international internship	The process of identifying students and universities were completed.
3.	Number of technologies transferred to industry / private sector / national / international organisations	Nil	Nil	
4.	Number of students selected in JRF / SRF / ARS	20	30/0/1	
5.	Number of students who were admitted in foreign universities	Nil	2	
6.	Number of students received National Young Scientist Award	Nil	Nil	
7.	Number of students received ICAR's Jawaharlal Nehru thesis Award	Nil	Nil	
8.	Number of students awarded at Agri-unifest	Nil	1	
9.	Number of students awarded at Agri uni sports meet	Nil	7	
10.	Number of industry-sponsored projects and positions in cutting-edge areas of agri-science	10	Under Progress	
11.	Number of competitive grants from a national/international funding agency	Nil	Nil	
12.	Number of technologies commercialised by AU	Nil	Nil	

III. Challenges faced and lessons learnt under Component 1 a

Delay in implementing World Bank protocol for purchase

Understanding STEP for procurement (RFQ, Bid evaluation etc)

Difficulty in Implementation of EAT module

Identifying international universities for student and faculty exchange programmes

Delay in implementation of civil works

IV. Plan ahead (Key activities) for next reporting period

- Pedagogy development and evaluation system
- Faculty Skill development
- Infrastructure for smart class
- Development of Apps
- Starting of Twinning programme and dual degrees
- Creation of open knowledge education and hub
- Establishment of skill development laboratories
- Establishment of learning assessment centre
- Data bank creation
- Introduction of senior residential program
- Student exchange program
- Networking of global alumni and stakeholder
- Developing prototype industry
- Lifelong learning system creation
- Creating animal business centre and market intelligence system

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