



# **INSTITUTIONAL DEVELOPMENT PLAN OF TAMIL NADU VETERINARY AND ANIMAL SCIENCES UNIVERSITY**



## **PROGRESS REPORT**

**April 2019  
To  
March 2020**

**Submitted to  
PIU - NAHEP,  
ICAR**

**NATIONAL AGRICULTURAL HIGHER  
EDUCATION PROJECT  
(NAHEP)**



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# PROGRESS REPORT April 2019 - March 2020

## 1. Executive summary

### A. 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 empower 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 teaching 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 were 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 were identified with monitorable targets. The functioning of IDP at TANUVAS ensures successful development of the institution.

## 2. Progress made during the period

The progress made across each components of NAHEP during April '19 to March '20 is provided.

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

#### A. Procurement:

Equipment purchased upon approval in STEP

S.No.	Activity Reference No. / Description	Procurement Category	Evaluation Options	Process Status
1	IN-TANVAS CHENNAI-90555-GO-RFB / All in one desk top computers - 120 Nos.	Goods	RFB	Completed
2	IN-TANVAS CHENNAI-90683-GO-RFQ / High Definition Digital Video Recorders - 4 Nos	Goods	RFQ	Completed
3	IN-TANVAS CHENNAI-90664-GO-RFQ / HD SMART LED TV - 108cm (43") - 4 Nos	Goods	RFQ	Completed



S.No.	Activity Reference No. / Description	Procurement Category	Evaluation Options	Process Status
4	IN-TANVAS CHENNAI-117225-GO-RFQ / Colour laser printer - 5 nos	Goods	RFQ	Completed
5	IN-TANVAS CHENNAI-90656-GO-RFQ / 4K UHD LED SMART Television - 189.3cm (75") - 2 Nos.	Goods	RFQ	Completed
6	IN-TANVAS CHENNAI-90540-GO-RFQ / Computer Server for Networking and Data storage - 4 Nos.	Goods	RFQ	Completed
7	IN-TANVAS CHENNAI-90673-GO-RFQ / High Definition Video Camera - 4K HDR XD CAM	Goods	RFQ	Completed
8	IN-TANVAS CHENNAI-117220-GO-RFQ / Leap from Bolt 3D printer - 3 nos.	Goods	RFQ	Completed
9	IN-TANVAS CHENNAI-90534-GO-RFQ / Smart boards - Interactive boards for smart class rooms	Goods	RFQ	Completed
10	IN-TANVAS CHENNAI-157426-GO-DIR / Canine surgical model	Goods	Direct	Signed
11	IN-TANVAS CHENNAI-157423-GO-DIR / Bovine Haptic Cow	Goods	Direct	Signed
12	IN-TANVAS CHENNAI-157427-GO-DIR / Bovine simulators - AI training model, injection and anatomy models	Goods	Direct	Signed
13	IN-TANVAS CHENNAI-157421-GO-DIR / Veterinary Simulators - Equine venipuncture, Bovine dystocia simulator and Theriogenology unit, canine spay simulator, suture pads, canine limb simulator	Goods	Direct	Signed
14	IN-TANVAS CHENNAI-157481-GO-RFQ / Stainless steel physical examination table	Goods	RFQ	Signed
15	IN-TANVAS CHENNAI-157484-GO-RFQ / Office furniture - Roundafle - 2nos., Exhibition display panel - 3 nos.	Goods	RFQ	Signed
16	IN-TANVAS CHENNAI-90634-GO-RFQ / Text books for undergraduate students in veterinary and animal sciences and food sciences	Goods	RFQ	Signed
17	IN-TANVAS CHENNAI-120092-CW-RFQ / Modernization of lecture halls to smart classrooms at VCRI Namakkal - 2 nos	Works	RFQ	Signed



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S.No.	Activity Reference No. / Description:	Procurement Category	Evaluation Options	Process Status
18	IN-TANVAS CHENNAI-90624-CW-RFQ / Modernization and refurbishing of Learning and Assessment Centre with roof, wall and floor paneling, HVAC and partitioning - at Madras Veterinary College	Works	RFQ	Signed
19	IN-TANVAS CHENNAI-120090-CW-RFQ / Modernization of lecture hall to smart classroom at MVC - 3 nos and CFDT - 1no .	Works	RFQ	Signed

- Two classrooms have been modernized into smart classrooms at MVC Chennai
- Soft skill lab and learning assessment centre is 90% completed at MVC Chennai
- Payment for purchase of robotic equipment for learning assessment centre was done and delivery is awaited

## B. Trainings and workshops

### For Students:

S.No.	Details of training	Student beneficiaries
1	Communication and soft skills	III year BVSc students, VCRI
2	Communication and soft skills	III year BVSc students, VCRI
3	Ice breaking event and motivational lecture on Orientation and Investing in College life for the first BVSc students of MVC	I year BVSc students, MVC
4	Ice breaking event and motivational lecture on Orientation and Investing in College life for CFDT students	I year students, CFDT
5	Molecular Microbiological methods	III year BVSc students, MVC and VCRI Namakkal (top 15)
6	Educational program to undergraduate students in clinical practice of veterinary gynaecology and obstetrics	IV year BVSc students, MVC and VCRI Namakkal (top 30)
7	Coping with academic setback and preparing for success	Conditionally allowed to pass students
8	Industrial Internship for 10 to 12 days at farms / industries based on the student's interest	IV year BVSc students of MVC and VCRI Namakkal
9	Remedial course for English	I year BVSc students, MVC
10	Remedial course for English	I year BVSc students, CFDT



S.No.	Details of Training	Student Beneficiaries
11	Remedial course for Anatomy	Conditionally allowed to pass students
12	Remedial course for Physiology	Conditionally allowed to pass students
13	Remedial course for Engineering maths	Conditionally allowed to pass students
14	Awareness program on Common diseases - Dengue and Swine flu	Students of TANUVAS
15	Lecture on gynaecological issues for girl students	Students at hostel
16	Lecture on Nutrition and diet for UG students	Students at hostel
17	Dermatology camp for students(Hostellers)	Students at hostel
18	Guest Lecture on "How to choose right statistical test?" by Dr. Kathiravan Gopalan, Professor and Head Dept. of Animal Husbandry Economics, MVC	Students and Researchers
19	Industrial Guest Lecture on Career opportunities by C. Sukumar, Regional Director, South Asia, Kemin Industries	Interested students of MVC
20	Motivational lecture by P. Krishnadasan, Vice President, ITCOT Consultancy Services Limited, Chennai	Interested students of MVC
21	Lecture on GRE by M. Cordelia, Staff Scientist-I at Harvard Medical School, USA	Interested students of MVC
22	Industrial Guest Lecture on Veterinary Professionals – Opportunities, Options and Challenges in India and Global Scenario by Dr. C.K.Thota, CEO – IFFCO, Allana Group	Final year BVSc students of MVC and Final year B.Tech students of College of Food and Dairy Technology
23	Skype lecture by Dr. Mohan Kumar from Univ. of Georgia on Neurological disorder	Students interested in Veterinary Surgery and Radiology
24	Sensitization workshop on Agricultural education and various opportunities available in agriculture/animal sciences	12th standard students, school principals, science teachers and parents
25	Lecture on Epidemiology of cancer- Journal club	Faculty and Students of MVC
26	Pharmaceutical meet	Final year BVSc students of MVC
27	Guest Lecture on Rehabilitation of wild life by Dr.Laura Adelna Bolanos Aguilar , Resident Trainee, Zoo and Wildlife Medicine, CVM, UGA	IV year BVSc students of MVC
28	Guest Lecture on Handling of emergency cases of different species - Bird's eye view by Dr.George Mayor, Associate Professor, Wild Animal Medicine and Surgery, University of Georgia, USA	Final year BVSc students of MVC



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- **For Faculty:**

S.No.	Details of training	Faculty beneficiaries
1	Robotics based Learning System Development	Faculty of TANUVAS (30 nos.)
2	Robotics based Learning System Development	Faculty of TANUVAS (30 nos.)
3	Modern Education Technology	Faculty of TANUVAS (30 nos.)
4	Modern Education Technology	Faculty of TANUVAS (30 nos.)
5	Pedagogical tools of modern veterinary education	Faculty of TANUVAS (30 nos.)
6	Pedagogical tools of modern veterinary education	Faculty of TANUVAS (30 nos.)
7	Advances in Market Intelligence	Faculty of TANUVAS with specialization on Animal Husbandry Economics (26 nos.)

### C. Overseas trainings:

- 16 students (4+6+6) were sent in three batches for overseas clinical internship to Washington State University and Oklahoma State University, USA for a period of 2 months
- Two faculty from VCRI, Namakkal were sent to Washington State University for overseas training for a period of 2 months
- Two faculty from MVC, Chennai were sent to Royal Veterinary College, London for a period of 3 months

### D. Short visit:

- Two faculty from MVC, Chennai were sent to Royal Veterinary College, London for a period of 2 weeks to visit the learning assessment centre and establish the same at MVC, Chennai

### E. Administrative work:

#### Finance and related work:

- ◆ Interest earned during 2018-19 was returned to ICAR
  - ◆ All payments were done through PFMS
  - ◆ Bills were cleared between 24 to 72 hours of receipt
  - ◆ IUFs were submitted for all the four quarters and annual expenditure was also submitted
  - ◆ Audit for the year 2018-19 was completed with minor suggestions from the CA team
- Tally software was purchased and bills (2018-19 and 2019-20) were entered into it as suggest-



**Committee constitution:**

- ◆ Interview committee was constituted as per the guidelines prescribed by NAHEP to select students and faculty for overseas training
- ◆ Procurement committee was constituted to peruse the documents pertaining to procurement
- ◆ Selection committee was constituted to recruit contractual staff under NAHEP

**Review meetings:**

- ◆ Review meetings conducted by PIU for PMTS, Procurement, EAP and ESP were attended either by PI or Co-PIs
- ◆ The suggestions and instructions given during the review meetings were implemented thereafter

**Student related:**

- ◆ Boards depicting “Grievance redressal mechanism” were fixed (MVC Chennai – 3 nos, MVC hostel – 1 no., VCRI, Namakkal – 2 nos., CFDT, Koduveli – 1 no.) along with complaint boxes
- ◆ Grievances received (2 nos.) at MVC, Chennai regarding non-availability of certain books in MVC library and non-functioning of microphones at classrooms were addressed
- ◆ A short film explaining the importance and functioning of GRM shot by students of III-year BVSc & AH, MVC was screened during the cultural events at MVC
- ◆ A student support cell consisting of six computers was established for the benefit of students

**ii. Major innovations / achievements during the period**

**Student-related activities:**

- ◆ Sixteen students and four faculty were sent for overseas training at WSU and OSU, USA
- ◆ Thirty students have been identified for the academic year 2020-21 for overseas clinical internship at WSU, OSU and UOG at USA
- ◆ Two students who underwent overseas clinical internship at WSU, USA and OSU, USA have been enrolled for a combined PhD programme at OSU, USA
- ◆ Trainings on transferable skills and ice-breaking events were organized for students of BVSc&AH at MVC, Chennai, VCRI, Namakkal and CFDT, Koduveli





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- ◆ Remedial courses on Veterinary Anatomy and Veterinary Physiology were handled by PhD scholars of respective discipline for conditionally allowed to pass students of I-year BVSc&AH of MVC, Chennai and VCRI, Namakkal
- ◆ Motivational lectures and career opportunity lectures were delivered to students of MVC, Chennai by eminent and successful alumni of TANUVAS
- ◆ Industrial training was organized for students of IV-year BVSc&AH at dairy farms, stud farms, vaccine labs, private pet clinics and feed manufacturing units so as to help them to acquire day-one skills
- ◆ Workshops and lectures were organized for III-year and IV-year BVSc&AH students of MVC, Chennai and VCRI, Namakkal by international adjunct faculty of TANUVAS
- ◆ All the trainings and workshops organized for students and faculty of TANUVAS were updated on NAHEP website periodically

### **Faculty-related activities:**

- ◆ Six trainings were organized for 60 faculty of TANUVAS to train them on student-centred teaching, in the process of which these trainees have become master trainers who will be available to disseminate their knowledge on the same to other AUs and Veterinary Universities
- ◆ Knowledge obtained by two faculty of TANUVAS during International training has helped them to impart the same in the BVSc&AH course curriculum
- ◆ Two faculty sent for a short visit to Royal Veterinary College, London facilitated the purchase of required robotic equipment and establishment of learning assessment centre at MVC, Chennai
- ◆ National training on “Market Intelligence” for Animal Husbandry Economics faculty of TANUVAS has helped them to inculcate this knowledge in the student curriculum and research activities

### **Finance-related activities:**

- ◆ PFMS mode of payment (Print payment advice) was implemented from April 1<sup>st</sup>, 2019
- ◆ IUFR for all the quarters of FY 2019-20 was sent to NAHEP Finance
- ◆ Maintenance of digital cash book was initiated
- ◆ Green initiatives and reduction of paper waste by implementing e-forms, Whatsapp groups and mails for faculty and students



### Feedback initiatives:

- ◆ Feedback was obtained from students and faculty who underwent international trainings and other trainings through Google forms
- ◆ Feedback obtained was viewed seriously so as to improve our organizing methods

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

#### A. Output-outcome monitoring

S. No.	Particulars	April'19 to March'20		
		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.)	1	1	
2	Number of pilot courses added / upgraded on communication skills, entrepreneurial skills, information processing, creative and innovative thinking, leadership skills, industry oriented courses etc.	13	12	
3	Additional revenue generated through institutional activities with industries in INR lakhs	NA	NA	
4	Revenue generated through public usage of infrastructure for academic activities in INR lakhs	NA	NA	
5	Number of MoUs signed with industry for knowledge exchange programs/ internships / short term training programs etc.	2	2	
6	Number of faculty exchange programmes (both national and international) initiated by AU	10	6*	
7	Number of student exchange programmes (both national and international) initiated by AU	10	16	

\* 4 faculty could not be sent due to COVID-19 lockdown

<sup>1</sup> 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.



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## B. Input and activity monitoring

Input / Activity indicator	Sub- head / category	Expenditure / input in INR lakhs		Justification
		Planned	Utilization	
Goods and equipment	Equipment, Plant & Machinery	-	-	-
	Office equipment	-	-	-
	Laboratory equipment	170.00	110.51	Canine surgical models Haptic cow 43" TV – 4 nos. 75" TV – 2 nos. HDD recorder – 4 nos. XDR CAM – 1 no.
	Furniture & fixtures	-	-	-
	Computers and Peripherals	155.00	155.25	Smart board – 8 nos. All in one desktop – 120 nos. 3D printer – 3 nos. Computer server – 4 nos. Colour printers – 5 nos.
	Books and Journals	20.00	3.72	Books – 113 nos.
Civil works	Minor repair and renovation work	110.00	45.11	Smart classroom – 2 nos. at MVC Learning assessment centre – 1 no. at MVC
Human capacity building	National level training	-	-	-
	International level training	90.00	66.69	Overseas international training – 4 faculty from TANUVAS for 2 to 3 months Training for faculty at TANUVAS – 6 trainings each for 3 days
	Short visit/ seminars	10.00	5.38	Short visit – 2 faculty from TANUVAS
	Meetings and workshops	10.00	3.80	NAARM training – 5 days – 26 faculty of TANUVAS
Consultancy	National level consultancies	-	-	-



Input / Activity indicator	Sub- head / category	Expenditure / input in INR lakhs		Justification
		Planned	Utilization	
Recurrent cost / Miscellaneous	Travel	10.00	7.78	Travel cost for PI, Co-PI, external expert, TA for faculty attending trainings under NAHEP within India
	Contractual services	11.00	8.44	SRF – 1 no. Data entry operator – 1 no. Computer programmer – 1 no. (for 3 months only)
	Operational costs	350.00	136.28	Overseas training – 16 students; International training – 2 nos; Workshops, guest lectures and remedial courses
	Institutional charges	20.00	20.31	Electricity bill for MVC was paid twice
<b>Total</b>		<b>756.00</b>	<b>563.27</b>	

### 3. Challenges faced and lessons learnt under Component 1 a

- Awareness on the importance and maintenance of digital cash book (Tally software) was not there and it was suggested by the auditors
- Provision of hiring contractual staff should be with a bond of at least 1 year need to be included
- Trainings (International training – 1 no., National training – 1 no., Overseas training – 2 faculty, Short visit – 2 faculty), development of virtual reality-based Anatomy software models, delivery of goods (international consignments, raw materials for civil work, office furniture, customized design of physical examination tables, fibre glass live animal models) were hampered due to lockdown amid COVID-19.

### 4. Plan ahead (Key activities) for next reporting period

- Selection of students to undergo overseas clinical training was completed and students will be sent if the overseas Universities are willing to accept students amid COVID-19 pandemic
- Selection of faculty to undergo overseas training and short visit was completed and they will be sent if situation permits
- Robotic equipment upon delivery by August 2020 will be installed in the Learning assessment centre at MVC and the same will positively start functioning by September 2020
- Online faculty development workshops will be organized for faculty
- RFB documents for purchase of microscope will be prepared and procurement will be completed upon receiving funds for the same

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

<sup>3</sup> Plz share the training details



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- Smart classrooms and soft skill labs at VCRI, Namakkal and CFDT, Koduveli will be completed
- Steering committee encompassing Professors of TANUVAS and experts of Holosuit are working towards development of augmented and virtual reality-based learning systems which will be completed by October 2020
- Learning apps, animated lessons, video lessons and e-atlases will be developed to enhance student-centred learning
- Campus Wi-Fi for students and faculty at MVC
- Live farm models for the benefit of students
- Development of exclusive website for identifying the students' skillsets, needs for the training and industrial internship and for their career guidance
- Conduct of Entrepreneurial Development Programme training for the Final Year students so as to inculcate the Entrepreneurial attitude
- Conduct of two Workshops on "Identifying and prioritizing veterinarians' day-one skills requirement for industrial needs" to facilitate the industrial interaction and empower the students
- Development of TANUVAS Alumni website which would help in building a huge network of veterinary professional.

S. No.	Particulars	Progress made during period Apr'19 to March'20	
		Plan	Achievement
1	Number of faculty exchange programmes (both national and international) initiated by AU	10	6
2	Number of student exchange programmes (both national and international) initiated by AU	10	16
3	Number of technologies transferred to industry / private sector / national / international organisations	NA	NA
4	Number of students selected in JRF / SRF / ARS	5	Yet to be awarded for academic year 2020-21
5	Number of students who were admitted in foreign universities	1	2

<sup>4</sup> 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	Progress made during period Apr'19 to March'20	
		Plan	Achievement
6	Number of students received National Young Scientist Award	1	Yet to be awarded for academic year 2019
7	Number of students received ICAR's Jawaharlal Nehru thesis Award	1	Yet to be awarded for academic year 2019
8	Number of students awarded at Agri-unifest	1	1
9	Number of students awarded at Agri uni sports meet	1	6
10	Number of industry- sponsored projects and positions in cutting-edge areas of agri-science	NA	NA
11	Number of competitive grants from a	NA	NA
12	Number of technologies commercialised by AU	NA	NA



### COMMUNICATION & SOFT SKILLS

I-year and II-year BVSc&AH students of VCRI Namakkal participating in activities during "Communication and soft skills" held during June, 2019



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## ROBOTICS BASED LEARNING SYSTEM DEVELOPMENT

Faculty from MVC, Chennai attending training on “Robotics based learning system development” held during July, 2019



Interaction of National Director and National Co-ordinator of IDP NAHEP with students and faculty undergoing overseas training at Washington State University and Oklahoma State University during July, 2019



## ROBOTICS BASED LEARNING SYSTEM DEVELOPMENT

Faculty from VCRI, Namakkal attending training on “Robotics based learning system development” held during July, 2019



### MODERN EDUCATION TECHNOLOGY

Faculty from MVC, Chennai attending training on “Modern Education Technology” held during August, 2019



### MODERN EDUCATION TECHNOLOGY

Faculty from VCRI, Namakkal attending training on “Modern Education Technology” held during August, 2019



### PEDAGOGICAL TOOLS IN VETERINARY EDUCATION

Faculty from MVC, Chennai and VCRI Namakkal attending training on “Pedagogical tools in veterinary education” held during September, 2019





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I batch of final year BVSc&AH students from MVC and VCRI Namakkal attending overseas clinical internship at Washington State University



## ICE-BREAKING

Ice-breaking session for I-year BVSc&AH students of MVC, Chennai



Workshop conducted by Dr. Sheela Ramamurthy for top 15 students of MVC Chennai and VCRI Namakkal



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