

**TAMIL NADU AGRICULTURAL UNIVERSITY**

**PROCEEDINGS**

**4<sup>th</sup> Allied Agricultural Scientists' Meet  
15<sup>th</sup> May, 2023**

**Lead Centres**

**Agricultural Engineering College and Research Institute  
Centre for Students Welfare  
TNAU, Coimbatore – 641 003**

**Directorate of Research  
Tamil Nadu Agricultural University  
Coimbatore - 641 003**

**2023**

## **PROCEEDINGS**

### **4<sup>th</sup> Allied Agricultural Scientists' Meet**

The 4<sup>th</sup> Allied Agricultural Faculty Scientists Meet was held at TNAU, Coimbatore on 15.05.2023. All the scientists of allied disciplines *viz.*, Mathematics, Statistics, Computer Science, Physics and Agricultural Chemicals, Organic Chemistry, Tamil, English, Library, Physical Education, Journalism and Veterinary Sciences have attended the meeting.

The Director of Research, TNAU in his opening remarks emphasized the role of Allied Sciences in the development of plant Sciences and sensitized all the Allied Agricultural Scientists to get involved in the projects of plant sciences. He has suggested to propose more URPs/ Externally funded projects through multi-disciplinary approach. It was also suggested to have tie up with scientists of other reputed R&D institutes.

The Dean (AEC&RI), Coimbatore and The Dean (CSW), TNAU, Coimbatore have insisted that all the scientists should operate two University Research Projects and take efforts to obtain at least one externally funded project in collaboration with agriculture and engineering domains. Dr. Balaji Kannan, Professor and Head (PS&IT) presented the action taken report on the recommendations of 3<sup>rd</sup> Allied Agricultural Scientists Meet and also presented the research highlights, progress of the projects handling and action plan 2023-24.

#### **The Proceedings of the meet is furnished below**

- I. Mathematics**
  1. Remarks on the ongoing research projects
  2. Action Plan for the year 2023-24
  
- II. Statistics**
  1. Remarks on the ongoing research projects
  2. Action Plan for the year 2023-24
  
- III. Computer Science**
  1. Remarks on the ongoing research projects
  2. Action Plan for the year 2023-24
  
- IV. Physics**
  1. Remarks on the ongoing research projects
  2. Action Plan for the year 2023-24
  
- V. Chemistry/ Organic Chemistry**
  1. Remarks on the ongoing research projects
  2. Action Plan for the year 2023-24
  
- VI. Tamil**
  1. Remarks on the ongoing research projects

**VII. English**

1. Remarks on the ongoing research projects

**VIII. Library**

1. Remarks on the ongoing research projects

**IX. Physical Education**

1. Remarks on the ongoing research projects

**X. Journalism**

1. Remarks on the ongoing research projects
2. Action Plan for the year 2023-24

**XI. Veterinary Science**

1. Remarks on the ongoing research projects

**XII. Remarks**

- a. General remarks
- b. Tamil
- c. English
- d. Library
- e. Physical Education
- f. Journalism
- g. Veterinary Science

**XIII. List of Participants**

## I. MATHEMATICS

### 1.1. Remarks on the ongoing projects:

S. No.	Number and Title of the Projects	Duration	Project Leader	Remarks
<b>Core Research Projects</b>				
1.	AEC&RI/CBE/P&IT/PUL/2023/001 Yield prediction model for Green gram and Black gram in Tamil Nadu"	Jan 2023 to Dec 2024	Dr. R. Vasanthi Assoc. Prof. (Maths)	<ul style="list-style-type: none"> <li>• One more URP may be proposed</li> <li>• The student project may be converted as URP</li> </ul>
2.	AEC&RI/CBE/PS&IT/ALLIED/2023/001 Estimating Daily Electricity Demand Using Weather-Driven Mathematical Modelling	March 2023 to February 2025	Dr. R. Pangayar Selvi, Assoc. Prof. (Maths)	<ul style="list-style-type: none"> <li>• One more URP may be proposed</li> <li>• The student project may be converted as URP</li> </ul>
3.	AECRI/CBE/PSIT/NON/2021/001 Developing yield prediction model for <i>Pterocarpus santalinus</i> (Red Sandal) in North-Eastern zone of Tamil Nadu, India	Sep 2021 to Aug 2022	Dr. R. Ravi Kumar Asst. Prof. (Maths)	<ul style="list-style-type: none"> <li>• Completion report may be submitted at the earliest</li> <li>• One more URP should be proposed</li> </ul>
4	AECRI/CBE/MAT/2021/001 Implication of environmental condition on the incidence of Purple Blotch of Small Onion	Mar 2023 to Dec 2023	Dr. R. Ravi Kumar Asst. Prof. (Maths)	<ul style="list-style-type: none"> <li>• Validation of Pests and diseases incidence may be completed</li> </ul>
5.	AECRI/PKM/MAT/2020/001 "Studying on crop response model for grapes under climate change scenario"	July 2019 to June 2022	Dr. A. Eswari Asst. Prof. (Maths)	<ul style="list-style-type: none"> <li>• Completion report may be submitted at the earliest</li> <li>• One more URP may be proposed</li> </ul>
6.	AECRI/CBE/MAT/2021/002 Exploring the relationship between climate change and the crop yield of minor millets –A modelling approach.	Mar 2021 to Aug 2022	Dr. M. Nirmala Devi, Asst. Prof. (Maths)	<ul style="list-style-type: none"> <li>• The data may be validated</li> <li>• One more URP may be proposed</li> </ul>
7.	AECRI/TRY/HOR/VEG/2019/001 A Study on Impulsive Control System in Biological Pest Control of Tomato Fruit Borer	Sep 2019 to Aug 2022	Dr. S. Anandhi Asst. Prof. (Maths)	<ul style="list-style-type: none"> <li>• Extension may be applied for continuation</li> <li>• One more URP may be proposed.</li> </ul>
8.	ENGG/MDU/ECO/RIC/2022/001 Developing Forewarning Models for Pests and Diseases of Rice based on Weather Parameters in Madurai District.	Jun 2022 to Mar 2024	Dr. B. Sivasankari Assoc. Prof. (Maths)	<ul style="list-style-type: none"> <li>• Forewarning models may be evaluated at different region of Madurai</li> </ul>
9.	CARDS/MDU/AEC/2020/001 An Economic Analysis of Vulnerability, Resilience and Adaptation to Climate Change on Livelihood Security and Crop Planning of Dry Land Farms of Madurai District.	Oct 2020 to Sep 2022	Dr. B. Sivasankari Assoc. Prof. (Maths)	<ul style="list-style-type: none"> <li>• Completion report may be submitted at the earliest</li> <li>• One more URP may be proposed</li> </ul>

10.	AECRI/TRY/SOC/MAT/2021/001 Fuzzy logic model approach for weather data analysis in Cauvery Delta Zone	April 2021 to March 2022	Mrs. R. Sugunthakunthalambigai, Asst. Prof. (Maths)	<ul style="list-style-type: none"> <li>• Completion report may be submitted at the earliest</li> <li>• Two URPs may be proposed at the earliest</li> </ul>
11.	Dr. P. Sujatha, Assoc. Prof. (Maths.)			<ul style="list-style-type: none"> <li>• Two URPs may be proposed at the earliest</li> </ul>

## 1.2. Action Plan for the year 2023-24 (Mathematics)

Development of Mathematical Models for Agricultural and Plant Sciences

- Development of empirical models in yield prediction for different agricultural crops
- Design and development of Pests and Disease Management models at various ectopic climatic conditions
- Assessment of Area, Production and Productivity using mathematical models

## II. STATISTICS

### 2.1. Remarks on the ongoing projects:

S. No.	Number and Title of the Projects	Duration	Project Leader	Remarks
<b>Core Research Projects</b>				
1.	AECRI/KKM/STA/2020/001 Big Data Analytics in Crop yield prediction of Tamil Nadu (Rice)	Oct 2020 to Sep 2022	Dr. R. GangaiSelvi Assoc. Prof. (Stat.)	<ul style="list-style-type: none"> <li>• Completion report may be submitted at the earliest</li> <li>• One more URP may be proposed</li> </ul>
2.	AEC&RI/MTP/STA/2021/001 Spatio-Temporal Analysis of Teak Plantation in Cauvery Delta Zone of Tamil Nadu, India	March 2021 to March 2022	Dr. M. Vijayabhama Assoc. Prof. (Stat.)	<ul style="list-style-type: none"> <li>• Emphasize on Spatial data in prediction analysis</li> <li>• Completion report may be submitted at earliest</li> <li>• One more URP may be proposed</li> </ul>
3.	AECRI/CBE/STA/2020/001 R package for CRD, RBD and Split plot Design	March 2022 to February 2023	Dr. Patil Santosh Ganapati, Asst. Prof. (Stat)	<ul style="list-style-type: none"> <li>• Suggested to pin the code in Siren and record the students' hits</li> <li>• Completion report may be submitted at earliest</li> </ul>
4.	AECRI/CBE/STA/2021/001 Drought Forecasting Through Statistical Analysis using Standardized precipitation index – A Modelling Approach	March 2021 to February 2023	Dr. M. Radha, Asst. Prof. (Stat.)	<ul style="list-style-type: none"> <li>• Concise table to be given for drought forecasting analysis</li> <li>• One more URP may be proposed</li> </ul>
5.	AECRI/MDU/STA/2020/001 Developing forecast model for Sugarcane Productivity using weather parameters in sugarcane growing agroclimatic zones of Tamil Nadu	February 2021 to February 2022	Dr. K. Prabakaran, Assoc. Prof. (Stat.)	<ul style="list-style-type: none"> <li>• Two URPs may be proposed at the earliest</li> </ul>

## 2.2. Action Plan for the year 2023-24 (Statistics)

Design and Development of Statistical Tools

- Times series modelling and forecasting
- Development of R Package
- Big Data Analytics in Crop yield prediction

## III. COMPUTER SCIENCE

### 3.1. Remarks on the ongoing projects:

S. No.	Number and Title of the Projects	Duration	Project Leader	Remarks
<b>Core Research Projects</b>				
1.	AECRI/KUM/PSC/2020/001 Design and development of effective e-Content resources for Agricultural Graduates (Agroinfomatics)	January 2020 to March 2023	Dr. C.S. Sumathi Assoc. Prof. (CS)	<ul style="list-style-type: none"> <li>• This project may be applied for external funding</li> <li>• One more URP may be proposed</li> <li>• Completion report may be submitted at earliest</li> </ul>
2.	AECRI/CBE/COM/2021/001 Deep Learning Based Mobile App for Early Identification of <i>Tutaabsoluta</i> in Tomato	March 2021 to August 2023	Dr. S. Sridevy Assoc. Prof. (CS)	<ul style="list-style-type: none"> <li>• One more URP may be proposed</li> <li>• This may be pinned in Agritech portal</li> </ul>
3.	EFP: ICAR NASF call IX Development and Demonstration of AI enabled Farm, Weather and Market information based Decision Support System (FARWM- DS) for sustainable farm productivity & profitability and evolve profitable cropping pattern	3 years	Dr. M. Kalpana Assoc. Prof. (CS)	<ul style="list-style-type: none"> <li>• Approved and budget awaiting</li> </ul>
4.	AECRI/CBE/PSIT/CS/2021/001 Developing a software tool for Probit Analysis using Python	June 2021 to May 2023	Dr. V. Anandhi, Assoc. Prof. (CS)	<ul style="list-style-type: none"> <li>• Completion report may be submitted at earliest</li> </ul>
5.	AECRI/PKM/COM/2020/001 Developing Farmers Friendly E- Guide - Mobile App / Website for Managing Pest, Disease and Nutritional Disorder in Guava (Bi-Lingual)	Aug 2020 to July 2022	Dr. P. Jona Innisai Rani Asst. Prof. (CS)	<ul style="list-style-type: none"> <li>• Mobile app may be made available in Agritech portal</li> </ul>
	CSC&RI/MDU/EE&CM/AS/2023/001 Analysing the Spatial variability and Weather data for yield prediction of mango using Machine Learning Techniques.	March 2023 to Feb 2026	Dr. P. Jona Innisai Rani Asst. Prof. (CS)	<ul style="list-style-type: none"> <li>• Thorough review of literature needs to be done</li> <li>• Minimum of two objectives to be identified</li> </ul>

6.	AECRI/MDU/PSC/2020/001 Design and Development of IoT Based Smart Energy System	Oct 2020 to Sep 2022	Dr. P. Prema Asst. Prof. (CS)	<ul style="list-style-type: none"> <li>• Project completion report may be submitted</li> <li>• A project may be proposed on automating irrigation for protected cultivation at AEC&amp;RI, Kumulur</li> </ul>
7.	EFP: TNSLURB IoT Based Smart Water Management to enhance the water and crop productivity	March 2020 To June 2023	Dr. P. Prema Asst. Prof. (CS)	<ul style="list-style-type: none"> <li>• Data repository may be created from the installed setup and completion report may be submitted</li> </ul>
8.	AECRI/CBE/COM/2021/002 Developing Artificial Neural Network model to calculate Potential Evapo-Transpiration (PET)	March 2021 to Feb 2023	Mrs. C. Hema Bharathi, Asst. Prof. (CS)	<ul style="list-style-type: none"> <li>• One more URP may be proposed</li> <li>• Completion report may be submitted at earliest</li> </ul>
9.	Dr. J. Arockia Stephen Raj Assoc. Prof. (CS)			<ul style="list-style-type: none"> <li>• Two URPs may be proposed at the earliest</li> <li>• Perform the impact analysis of QR code project and commercialize this project and take this to the next level</li> </ul>
10.	Er. G. Vanitha, Asst. Prof. (CS)			<ul style="list-style-type: none"> <li>• Two URPs may be proposed at the earliest</li> <li>• External funded projects may be proposed on education module</li> </ul>
11.	Dr. N. Raja, Asst. Prof. (CS)			<ul style="list-style-type: none"> <li>• Two URPs may be proposed at the earliest</li> </ul>
12.	Mr. M. Chellamuthu, Asst. Prof. (CS)			<ul style="list-style-type: none"> <li>• Two URPs may be proposed at the earliest</li> </ul>
13.	Mr. M. Parthibhan Asst. Prof. (CS)			<ul style="list-style-type: none"> <li>• Two URPs may be proposed at the earliest</li> </ul>

### 3.2. Action Plan for the year 2023-24 (Computer Sciences)

#### Smart Agriculture using Emerging Technologies

- IoT for Smart Agriculture
- Machine Learning Models for Pest & Disease Management
- Mobile Application Development

#### IV. PHYSICS

##### 4.1. Remarks on the ongoing projects:

S. No.	Number and Title of the Projects	Duration	Project Leader	Remarks
<b>Core Research Projects</b>				
1.	AEC&RI/CBE/ RIC/ 2023/ 001 Efficacy of Ultrasonic Sound on Repellence of Rice Weevil ( <i>Sitophilus oryzae</i> ) Pest in Stored Rice Grains	March 2023 to Feb. 2025	Dr. Devaraj Soundararajan, Asst. Prof. (Physics)	• One more URP may be proposed

#### V. CHEMISTRY/ ORGANIC CHEMISTRY

##### 5.1. Remarks on the ongoing research projects

S. No.	Number and Title of the Projects	Duration	Project Leader	Remarks
<b>Core Research Projects</b>				
1.	CPM B/CBE/ PL.BIO/ Non-I 2022 I 001 Assessment of the antimicrobial and insecticidal activity of the nimbolide and its hybrid molecules	June 2022 to May 2024	Dr V.P. Santhanakrishnan, Assoc. Prof. (Organic Chemistry)	• Two URPs may be proposed at the earliest
2.	CPMB/MDU/AGC/PBT/2019/001 Bioprospecting of Nopal Cactus ( <i>Opuntia ficus-indica</i> ) as a Source of Bioactive Compounds for Nutrition and Health	August 2019 to July 2021	Dr. S. Vellaikumar Asst. Prof. (Agricultural Chemicals)	• Completion report should be submitted at the earliest • Two URPs may be proposed at the earliest
3.	NRM/MDU/AGC/2020/001 "Development of non – edible oil based gibberellic acid formulation and its evaluation in onion"	Feb. 2020 to Jan. 2023	Dr. K. Senthil, Asst. Prof. (Agrl. Chemicals)	• Completion report may be submitted at earliest • Two URPs may be proposed at the earliest
4.	BE/ASI/ACRI/MDU/S&E/CHI/2019/001 Evaluating the efficacy of Acadian GoldStar on Cardamom & Tomato production with special reference to quality and yield contributing parameters	January 2022 to March 2023	Dr. K. Senthil, Asst. Prof. (Agrl. Chemicals)	• Completion report may be submitted at earliest • Two URPs may be proposed at the earliest

##### 5.2. Action Plan for the year 2023-24 (Organic chemistry)

- Developing botanical formulation
- Modification and Assessment of Nimbolide derivatives for Enhanced Insecticidal and Antimicrobial Activity



## VI. TAMIL

### 6.1. Remarks on the ongoing projects

S. No.	Number and Title of the Projects	Duration	Project Leader	Remarks
<b>Core Research Projects</b>				
1.	DSW/KDM/TAM/2016/001 புதுக்கோட்டை மாவட்டத்தில் கடைப்பிடிக்கப்படும் வேளாண்மை சார்ந்த பாரம்பரியத் தொழில் நுட்பங்களும், வட்டார வழக்குச் சொற்களும்	-	Dr. K. Selvarasu Prof. (Tamil)	• Completion report submitted on 25.01.2023 & Project Completion Certificate and no pendency received from Director of Research.
2.	DOR/TRY/TAM/2020/001 பத்துப்பாட்டு இயம்பும் வேளாண் அறிவியல்	Oct.2020 Sep.2022	Dr. M. Manimekalai, Prof. (Tamil)	• Completion report submitted on 20.04.2023.
3.	DSW/TRY/TAM/2021/001 வேளாண்மைப் பழமொழிகள் விதைத்த வேளாண் அறிவியல் -	Jan.2021 – Dec.2022	Dr. M. Manimekalai, Prof. (Tamil)	• Completion report may be submitted at the earliest • One more URP may be proposed
4.	சங்க இலக்கியங்களும் நவீன வேளாண் கருவிகள் உருவாக்கத்திற்கான நுட்பங்களும்	-	Dr. P. Vellaichamy, Prof. (Tamil)	• New Project proposal submitted for the approval
5.	DSW/CSCRI/TAM/2021/001 தமிழ் இலக்கியங்களில் வேளாண்மையும் நீர் மேலாண்மைத் தொழில் நுட்பங்களும்	-	Dr. P. Vellaichamy Prof. (Tamil)	• Completion report submitted on 31.03.2023
6.	DOR/MDU/TAM/2020/001 பாரம்பரிய உணவு வகைகளும் தமிழர் பண்பாடும் ஆவணமாக்குதல் (ஒருங்கிணைந்த மதுரை மாவட்டம்)	-	Dr. K. C. Kumaran, Assoc. Prof. (Tamil)	• Completion report submitted.
7.	பண்டையத் தமிழ் இலக்கியங்களில் சிறுதானிய பயிர்களும் பயிரிடும் முறைகளும் சிறுதானிய உணவு முறைகளும் ஓர் ஆய்வு	-	Dr. K. C. Kumaran, Assoc. Prof. (Tamil)	• New Project proposal submitted for the approval
8.	DOR/ECK/TAM/2021/001 திருக்குறள் சுட்டும் நீர் மேலாண்மை நுட்பங்கள்	-	Dr. B. Rajaganapathy, Assoc. Prof. (Tamil)	• Completion report may be submitted at the earliest • One more URP may be proposed
9.	சித்தர் பாடல்களில் தாவரங்களின் ஆளுமைகள்	Feb 2021 to Jan 2022	Dr. B. Rajaganapathy, Assoc. Prof. (Tamil)	• புதிய ஆய்வுத் திட்ட விண்ணப்பம் தயாரிக்கப்பட்டு பல்கலைக் கழக ஆய்வுத் திட்டத்திற்காக சமர்ப்பிக்கப்பட உள்ளது.

S. No.	Number and Title of the Projects	Duration	Project Leader	Remarks
				<ul style="list-style-type: none"> <li>• Completion report may be submitted at the earliest</li> <li>• One more URP may be proposed</li> </ul>

## 6.2. Action Plan for the year 2023-24 (Tamil): Nil

## VII. ENGLISH

### 7.1. Remarks on the ongoing projects:

S. No.	Number and Title of the Projects	Duration	Project Leader	Remarks
<b>Core Research Projects</b>				
1.	DOR/MDU/ENG/2021/001 An Empirical Study on the Employability Skills of Under Graduate Students	August 2020 to August 2021	M. Suresh, Asst. Prof. (English)	<ul style="list-style-type: none"> <li>• Completion report may be submitted at the earliest</li> <li>• One more URP may be proposed</li> </ul>
2.	A Study of the Expressive Skills of Students from Tamil Medium Schools, and to facilitate Corrective Exercises in Digital Language Laboratory	Dec. 2023 to March 2024	Dr. K. Thangaraj, Assoc. Prof. (English) Co-PI: Dr. Anandhi Santhosh, Asst. Prof. (Mathematics)	<ul style="list-style-type: none"> <li>• New proposal</li> </ul>
3.	CARDS/MDU/LAN/ 2018/001- A study on class room interactive skills in English among the Students of AC&RI, CSC&RI, Madurai &HC&RI, Periyakulam.	May 2018 — May 2022	Mrs. S.P. Shanmugapriya, Asst. Prof. (English) CSW, TNAU	<ul style="list-style-type: none"> <li>• Completion report may be submitted at the earliest</li> <li>• One more URP may be proposed</li> </ul>
4.	DOR/KDM/ENG/2020/001 A Study on the Difference in the Receptive Skills in English among the Students of ACRI, Kudumiyamalai	April 2020 to March 2023	P. Sivakumar, Asst. Prof. (English)	<ul style="list-style-type: none"> <li>• Completion report may be submitted at the earliest</li> <li>• One more URP may be proposed</li> </ul>
5.	URP No: DOR/KKM/ENG/2021.001 Developing modules for Enhancing Communication Skills of Farm Graduates	Feb 2021 to Jan 2023	Dr. P. Jeyalakshmi, Asst. Prof. (English)	<ul style="list-style-type: none"> <li>• Completion report may be submitted at the earliest</li> <li>• One more URP may be proposed</li> </ul>

## 7.2. Action Plan for the year 2023-24 (English): Nil

## VII. LIBRARY

### 8.1. Remarks on the ongoing projects:

S. No.	Number and Title of the Projects	Duration	Project Leader	Remarks
<b>Core Research Projects</b>				
1.	DOR/VVR/LIB/2020/001 Research output of Tamil Nadu Agricultural University with reference to Scopus and Web of Science Database"	December 2022	Dr. C. Prema, Librarian	<ul style="list-style-type: none"> <li>• Received the Completion Certificate</li> </ul>
2.	DOR/VVR/LIB/2020/001 Research output of Tamil Nadu Agricultural	Completed	Dr. C. Karuilancheran	<ul style="list-style-type: none"> <li>• Completed &amp; Submitted</li> </ul>

S. No.	Number and Title of the Projects	Duration	Project Leader	Remarks
	University with reference to Scopus and Web of Science Database	during December 2022	Librarian	•
3.	DOR/MDU/LIB/2020/001 Library Utilisation behaviour and Academic Performance of Selected Students – A Comparative Study	Completed April 2022	Dr. C. Karuilancheran Librarian	• Completion report may be submitted at the earliest
4.	DOR/VVR/LIB/2020/001 Research output of Tamil Nadu Agricultural University with reference to Scopus and Web of Science Database.	completed during December 2022	Dr. M. Sankar, Deputy Librarian	• Received the Completion Certificate
5.	DOR/KUM/LIB/2020/001 Design and Development of Institutional Repository using D-Space digital library software	April 2020 March 2022	Dr. M.C. Subangi Deputy Librarian	• Completed & Submitted
6.	-	-	P. Sampathkumar Assistant Librarian	• Not Reported
7.	A comparative study of library utilization behaviour and student's academic achievement among UG and PG students in Horticultural College and Research Institute	Sep 2020 to -Aug 2022	Dr. K. Thangavel Assistant Librarian	• Not Reported

## 8.2. Action Plan for the year 2023-24 (Library): Nil

## XI. PHYSICAL EDUCATION

### 9.1. Remarks on the ongoing projects:

S. No.	Number and Title of the Projects	Duration	Project Leader	Remarks
<b>Core Research Projects</b>				
1.	-	-	Dr. C. Parthiban, Director of Physical Education	-
2.	-	-	Dr. Raghavan, G, Director of Physical Education	-
3.	Effect of Yogic Practices and Physical Activity on selected Physical and Physiological variables among obese women students	Aug 2020 to Aug 2022	Dr. M. Senthilkumar, Assistant Director of Physical Education	• Deletion request may be sent
4.	DOR/MTP/PED/2020/001 (New Number yet to be allotted) "Analysis of Physical Fitness of Forestry Students as per the Tamil Nadu Forest Department Norms	March 2020 to March 2021	Dr. Desiga Srinivasan, J.P Assistant Director of Physical Education	• Deletion request may be sent

## 9.2. Action Plan for the year 2023-24 (Physical Education): Nil

## X. JOURNALISM

### 10.1. Remarks on the ongoing projects:

S. No.	Number and Title of the Projects	Duration	Project Leader	Remarks
<b>Core Research Projects</b>				
1.	<b>CARDS /CBE/DEE/ NON/ 2022/ 001</b> Effectiveness of <i>Uzhavarin Valarum Velanmai</i> in dissemination of farm technologies	April 2022- March 2024	Dr. R. Sasikala, Assistant Professor (Journalism)	• Data collection is in progress

### 10.2. Action Plan for the year 2023-24 (Journalism): Nil

## XI. VETERINARY SCIENCE

### 11.1. Remarks on the ongoing projects:

S. No.	Project No. & Title	Project Leader	Project Duration	Status
1.	CPMB/MDU/BIT/2020/001 Exploration of bacterial flora in the gut of black soldier flies larvae fed with different substrate and suitability as feed substitute in backyard poultry.	Dr. S. Saravanan Asst. Prof. (V&AS) Dr. R. Renuka Assoc. Prof. & Head Dept. of Biotech., AC&RI, Madurai	October 2020 - October 2022	• Project completed. • Completion report to be submitted for approval

### 11.2. Action Plan for the year 2023-24 (Veterinary Science): NIL

## XII. Remarks

### a. General

- All Allied Agricultural Scientists may be sensitized to propose a minimum of Two URPs each in association with Plant Scientists.
- A separate IT cell may be constituted at University level with a team involving of 4 to 5 scientists of Computer Science and the Professor and Head (PS&IT) to liaison between Crop Scientists and Service Providers in developing agriculture related applications and to provide technical coordination in upgrading Agritech, Agricart portal and UG/PG admissions at TNAU.
- Series of trainings may be organized for students and faculties to make them aware of the recent advancements in mathematics, computer science and statistics.

### b. Mathematics

- Mathematicians may be encouraged to develop prediction models for pest and disease incidence in major crops.
- A text book on 'Elementary Mathematics' may be prepared for the benefit of students
- Mathematicians may be involved in Economics/ Bio-informatics/RSGIS/Big-data analysis

### **c. Statistics**

- Text books on Agricultural statistics may be written.
- Capacity building on R package may be strengthened.
- Scientists are encouraged to propose external funded projects involving biological scientists.

### **d. Computer Science**

- Faculties of Computer Science may work with Biotechnologists/Bioinformaticians.
- Research projects involving big data analysis, machine learning, Artificial intelligence *etc.* may be proposed for funding.
- New software may be developed

### **e. Physics**

- Suggested to propose external funded projects involving biological scientists.

### **f. Agricultural Chemicals/ Organic Chemistry**

- Faculties may be encouraged to take up product-oriented research.
- Basic research in association with Plant Scientists may be prioritized

### **g. Tamil**

- A 'Tamil Cell' may be established for translation work.
- A compendium on Traditional agricultural practices of olden Chola period on storage, pest and technologies may be prepared.
- Efforts may be taken to write Tamil news or article in newspaper about TNAU or in general.
- *Agaramuthali* (Senthamizh Etymology) may be popularized to the students.
- A three- or six-month intensive course may be offered in teaching Tamil language to the students from other states/countries, who are undergoing courses in TNAU.
- A compilation of technical terms in Tamil may be prepared.

### **h. English**

- Special initiatives for improving communication skill/ language proficiency of the students who got admitted from Tamil medium schools may be given.
- Efforts may be taken to empower the students to develop skills such as competitive exams/interviews/ Group discussions *etc.*
- Orientation may be given for the students aspiring for higher education in abroad in TOEFL, GRE, IELTS *etc.*
- Spoken and writing skills may be imparted to the students through AI and machine learning.
- Expert lectures to be arranged on AI & ML for the PG/Ph.D. scholars.

### **i. Library**

- The foot fall in libraries may be improved.
- Frequent interaction of the librarians with Heads of Department, scientists and students for subscribing to research journals and purchase of text books may be followed.
- Reading habits of students may be improved through allotment of compulsory Library hours.
- Online seminars/conferences for PG /Ph.D. students may be organized by the Librarians
- Sensitization program for IRINS, Research Gate and ORCID may be conducted by the Librarians.

- Issuing RFID to all the students and faculties may be completed immediately.

#### **j. Physical Education**

- Talented students may be identified and encouraged to participate in national level tournaments.
- Top 3 teams from all colleges may be selected and special attention may be given for further improvement.
- Efforts may be taken to establish fitness centre in each campus.
- Developmental activities for creating necessary infrastructure for physical education in all campuses may be ensured.

#### **k. Journalism**

- The content of *Uzhavarin Valarum Velanmai* may be strengthened.

#### **l. Veterinary Science**

- Faculties of Veterinary Science may concentrate on proposing research projects on improving the fodder quality of agricultural crops.
- The faculties are sensitized to take up research projects relating to animal nutrition, impact of feeding improved forage crop varieties in influencing animal health and milk yield *etc.*
- Disease diagnostic programmes, trainings on animal husbandry *etc.*, may be planned by Veterinary scientists in each KVK/campus.
- Veterinary Scientists should co-ordinate with Agronomists in the Research Stations / KVKs for establishment of IFS model for the benefit of visiting farmers and other training programmes.

### **XIII. LIST OF PARTICIPANTS**

<b>S. No.</b>	<b>Name &amp; Designation</b>	<b>Place of Work</b>
<b>Mathematics</b>		
1.	Dr. R. Vasanthi, Associate Professor	TNAU, Coimbatore
2.	Dr. R. Pangayaraselvi, Associate Professor	TNAU, Coimbatore
3.	Dr. P. Sivasankari, Associate Professor	AC&RI, Madurai
4.	Dr. P. Sujatha, Associate Professor	AC&RI, Eachangkottai
5.	Dr. M. Nirmaladevi, Assistant Professor	TNAU, Coimbatore
6.	Mrs .R. Sugantha Kunthambaigai, Asst. Professor	AEC&RI, Kumulur
7.	Dr. S. Ananthi, Assistant Professor	ADAC&RI, Trichy
8.	Dr. A. Eswari, Assistant Professor	TNAU, Coimbatore
9.	Dr. R. Ravikumar, Assistant Professor	TNAU, Coimbatore
<b>Computer Science</b>		
1.	Dr. C.S. Sumathi, Associate Professor	TNAU, Coimbatore
2.	Dr. S. Sridevy, Associate Professor	TNAU, Coimbatore
3.	Dr. M. Kalpana, Associate Professor	TNAU, Coimbatore
4.	Dr. V. Anandhi, Associate Professor	TNAU, Coimbatore
5.	Dr. J. Arockia Stephen Raj, Associate Professor	AC&RI, Killikulam
6.	Dr. P. Jona Innisai Rani, Assistant Professor	AC&RI, Madurai
7.	Dr. P. Prema, Assistant Professor	AEC&RI, Kumulur
8.	Mrs. C. Hema Bharathi, Assistant Professor	TNAU, Coimbatore
9.	Er. G. Vanitha, Assistant Professor	TNAU, Coimbatore
10.	Dr. N. Raja, Assistant Professor	ADAC&RI, Trichy
11.	Mr. M. Chellamuthu, Assistant Professor	TNAU, Coimbatore
12.	Mr. M. Parthibhan, Assistant Professor	TNAU, Coimbatore

<b>Statistics</b>		
1.	Dr. U. Arulanandu, Professor	ADAC&RI, Trichy
2.	Dr. K. Prabakaran, Associate Professor	AC&RI, Madurai
3.	Dr. R. Gangai Selvi, Associate Professor	TNAU, Coimbatore
4.	Dr. M. Vijayabhama, Associate Professor	TNAU, Coimbatore
5.	Dr. Patil Santosh Ganapati, Assistant Professor	TNAU, Coimbatore
6.	Dr. M. Radha, Assistant Professor	AC&RI, Kudumiyamalai
7.	Dr. P.G. Saravanan, Assistant Professor	TNAU, Coimbatore
<b>Physics</b>		
1.	Dr. S. Kulanthaisamy, Professor	TNAU, Coimbatore
2.	Dr. D. Jaya Sundara Sharmila, Assistant Professor	TNAU, Coimbatore
3.	Dr. Pon Sathyamoorthy, Assistant Professor	AEC&RI, Kumulur
4.	Dr. Soundararajan Devaraj, Assistant Professor	TNAU, Coimbatore
<b>Chemistry/Organic Chemistry</b>		
1.	Dr. V.P. Santhana Krishnan, Assistant Professor	TNAU, Coimbatore
2.	Dr. K. Senthil, Assistant Professor	ADAC&RI, Trichy
<b>Tamil</b>		
1.	Dr. K. Selvarasu, Professor	CSW, TNAU, Coimbatore
2.	Dr. M. Manimekalai, Professor	ADAC&RI, Trichy
3.	Dr. P. Vellaichamy, Professor	AC&RI, Madurai
4.	Dr. B. Rajaganapathy, Associate Professor	AC&RI, Eachangkottai
5.	Dr. K.C. Kumaran, Associate Professor	HC&RI, Periyakulam
6.	Dr. P. Sengottaian, Assistant Professor	AC&RI, Coimbatore
<b>English</b>		
1.	Mr. M. Suresh, Assistant Professor	AC&RI, Madurai
2.	Dr. K. Thangaraj, Associate Professor	ADAC&RI, Trichy
3.	Mrs. S.P. Shanmugapriya, Assistant Professor	CSW, TNAU, Coimbatore
4.	Mr. P. Sivakumar, Assistant Professor	AC&RI, Kudumiyamalai
5.	Dr. P. Jeyalakshmi, Assistant Professor	AC&RI, Killikulam
<b>Library Science</b>		
1.	Dr. C. Prema, Librarian	CSW, TNAU, Coimbatore
2.	Dr. C. Karuilancheran, Librarian	AC&RI, Madurai
3.	Dr. M. Sankar, Deputy Librarian	AC&RI, Vazhavachanur
4.	Mrs. M.C. Subangi, Deputy Librarian	AEC&RI, Kumulur
5.	Mr. K. Thangavelu, Assistant Librarian	HRS, Pechiparai
6.	Mr. P. Sampathkumar, Assistant Librarian	FC&RI, Mettupalayam
<b>Physical Education</b>		
1.	Dr. C. Parthiban, Director of Physical Education	AC&RI, Madurai
2.	Dr. G. Raghavan, Director of Physical Education	FC&RI, Mettupalayam
3.	Dr. M. Senthilkumar, Asst. Director of Phy. Education	AC&RI, Killikulam
4.	Dr. J.P. Desiga Srinivasan, Asst. Director of Phy. Education	CSW, TNAU, Coimbatore
5.	Dr. M. Nandhini, Teaching Assistant	CSW, TNAU, Coimbatore
6.	Dr. G. Sushmitha, Teaching Assistant	CSW, TNAU, Coimbatore
7.	Dr. N. Sathish Babu, Teaching Assistant	HC&RI, Periyakulam
8.	Dr. R. Arivazhan, Teaching Assistant	AC&RI, Eachangkottai
9.	Dr. C. Senthil Kumar, Teaching Assistant	AEC&RI, Kumulur
10.	Dr. K. Sathish Kumar, Teaching Assistant	AC&RI, Vazhavachanur
<b>Journalism</b>		
1.	Mrs. R. Sasikala, Assistant Professor (Journalism)	DPM, TNAU, Coimbatore
<b>Veterinary Science</b>		
1.	Dr. P. Chitra, Associate Professor	KVK, Pongalur
2.	Tmt. P. Kohila, Assistant Professor	KVK, Sandhiyur
3.	Dr. S. Krishna Kumar, Assistant Professor	TNAU, Coimbatore
4.	Dr. G. Kumar, Assistant Professor	AC&RI, Killikulam
5.	Dr. V.B. Raghavendran, Assistant Professor	ADAC&RI, Trichy

6.	Dr. M. Ramasamy, Assistant Professor	KVK, Virinjipuram
7.	Dr. M. Sabapathi, Assistant Professor	KVK, Needamangalam
8.	Dr. S. Saravanan, Assistant Professor	KVK, Madurai
9.	Tmt. A. Sumithra, Assistant Professor	KVK, Aruppukottai
10.	Dr. R. Thangadurai, Assistant Professor	KVK, Pappalapatty
11.	Dr. M. Thirunavukkarasu, Assistant Professor	TNAU, Coimbatore

\*\*\*\*\*