

ANNUAL REPORT

2023-2024

(Vide section 57 of Kerala Agricultural University Act 1971 as amended vide Act 16 of 2001)



**KERALA AGRICULTURAL
UNIVERSITY**

Name of University : **Kerala Agricultural University**

Chancellor : **Sri. Arif Mohammed Khan**
Hon. Governor of Kerala

Pro-Chancellor : **Sri. P. Prasad**
Hon. Minister for Agriculture,
Govt. of Kerala

Vice Chancellor : **Dr. B. Ashok, IAS**

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1 – INTRODUCTION

The Kerala Agriculture University Act 1971 (Act 33 of 1971) came into force with effect from 24th February 1971. Accordingly, Agricultural College & Research Institute, Vellayani and the Kerala Veterinary College & Research Institute, Mannuthy were disaffiliated from Kerala University and Calicut University respectively and maintained by Kerala Agriculture University as its constituent colleges with effect from 01.02.1972. Simultaneously fifteen research institutions under the Department of Agriculture and six research institutions under the Department of Animal Husbandry also were transferred to Kerala Agriculture University with effect from 01.02.1972. The Headquarters of University is at Vellanikkara in Thrissur District. With respect to the higher education, research and extension education programmes in the field of agriculture, the territorial jurisdiction and responsibility of the University extend over the entire state of Kerala.

Following enactment of the Kerala Veterinary and Animal Sciences University Act, 2010 (Act 3 of 2011) twenty number of Veterinary, Animal Sciences, Dairy Science and Poultry units including colleges, research stations, hospitals, farms and plants were transferred from the Kerala Agriculture University to the Kerala Veterinary and Animal Sciences University. Similarly, fisheries college and research station were transferred to Kerala University of Fisheries and Ocean Studies consequent to the enactment of the Kerala University of Fisheries and Ocean Studies Act 2010 (Act 5 of 2011).

The following are the objectives of the Kerala Agricultural University:

- (1) making provision for imparting education in different branches of study, particularly agriculture, horticulture, animal husbandry including veterinary and dairy science, co-operation, fisheries, forestry, agricultural engineering, home science and other allied branches of learning and scholarship;
- (2) furthering the advancement of learning and prosecution of research, particularly in agriculture and other allied sciences;
- (3) undertaking an extension education programme; and
- (4) Such other purposes as the University may from time to time determine.

The Statutory Bodies of the University as per the Act are:

1. General Council
2. Executive Committee
3. Academic Council
4. Board of Studies
5. Faculties
6. Finance Committee

GENERAL COUNCIL

Ex-officio Members

- 1 The Chancellor
- 2 The Pro-Chancellor
- 3 The Vice-Chancellor
- 4 The Agricultural Production Commissioner
- 5 The Principal Secretary/ Secretary or the Special Secretary to Government, Department of Agriculture.
- 6 The Principal Secretary/ Secretary or the Special Secretary to Government, Department of Finance
Smt. N. Sreelatha Sukumaran
Additional Secretary, Finance Department
- 7 The Principal Secretary/ Secretary or the Special Secretary to Government, Department of Fisheries
- 8 The Principal Secretary/ Secretary or the Special Secretary to Government, Department of Animal Husbandry
- 9 The Director of Agriculture
- 10 The Director of Animal Husbandry
- 11 The Director of Dairy Development
- 12 The Director of Fisheries
- 13 The Principal Chief Conservator of Forests
- 14 The Chairman,
Rubber Board
- 15 The Chairman,
Spices Board
- 16 The Chairman,
Marine Products Export Development Authority.
- 17 The Director,
Central Plantation Crops Research Institute
- 18 The Director,
Kerala Forest Research Institute
- 19 Representative of Indian Council of Agricultural Research (ICAR)
Dr. A Gopalakrishnan,
Director,
ICAR-Central Marine Fisheries Research Institute
- 20 The Member of the Legislative Assembly representing the constituency in which the Headquarters of the University is situated

Adv. K.Rajan
Hon'ble Minister for Revenue and Housing & Ollur MLA

Elected Members

Four members elected by the members of the Legislative Assembly

21 Shri. G.S.Jayalal, MLA

22 Dr. N. Jayaraj
MLA & Government Chief Whip

23 Shri. Saneeshkumar Joseph, MLA

24 Shri P.P. Sumod, MLA

One member elected by the Deans of Faculties of the University

25 Vacant

Four members elected by the Teachers of the University

26 Dr. Nideesh P

27 Dr. P K Sureshkumar

28 Dr. Thomas George

29 Dr. Thulasi V

Two members elected by the Students of the University

30 Shri. Basil N K (2021-41-328)

31 Shri. S Sambath (2021-41-586)

Two members elected by the Non-teaching Staff of the University

32 Shri. Jayakumar K S

33 Shri. Krishnadas N

Two members elected by the Permanent Labourers of the University

34 Shri. Satheesh Kumar V. T

35 Shri. Shibu S. L

Members Nominated by the Chancellor

Four eminent Scientists in the field of agriculture and allied subjects from the concerned University or from outside

[36-39] Vacant

Four Farmers of whom one shall be a member belonging to a Scheduled Caste or a Scheduled Tribe and one shall be a woman

[40 – 43] Vacant

One member from the Association of Planters, Kerala

[44] Vacant

Two Presidents of Grama Panchayat

[45-46] Vacant

Other members

Three members to represent respectively the Universities of Calicut, Cochin and Kerala, elected by the Senates of the respective Universities

[47-49] Vacant

EXECUTIVE COMMITTEE

Ex-officio members

- 1 The Vice-Chancellor
- 2 The Agricultural Production Commissioner
- 3 Smt. N. Sreelatha Sukumaran
Additional Secretary, Finance Department

Other members

The member representing the Indian Council of Agricultural Research in the General Council

- 4 Dr. A Gopalakrishnan,
Director,
ICAR-Central Marine Fisheries Research Institute

One Dean of Faculty elected by the General Council

- 5 Vacant

One member elected from among the Teachers in the General Council, by the Council

- 6 Vacant

Five non-official members of the General Council, elected by the Council, of whom, one shall be a member belonging to a SC/ST and one shall be a woman.

- 7-11 Vacant

The MLA representing the constituency in which the Headquarters of the University is situated.

- 12 Adv. K. Rajan,
Hon'ble Minister for Revenue and Housing & Ollur MLA

ACADEMIC COUNCIL MEMBERS

Ex- officio Members

1. The Vice Chancellor
2. The Dean of Faculty (Agriculture)
3. The Dean of Faculty (Agricultural Engineering & Technology)
4. The Dean of Faculty (Forestry)
5. The Director of Research
6. The Director of Extension
7. The Director of Students' Welfare
8. The Librarian
9. The Registrar
10. The Director of Agriculture, Thiruvananthapuram
11. The Director of Animal Husbandry, Thiruvananthapuram

Elected Members

12. Dr. Refeekher M
13. Dr. Dhalin.D
14. Dr. Binu N. Kamalolbhavan

Co-Opted Members

15. The Director of Education
16. The Dean, College of Agriculture, Vellanikkara
17. The Dean, College of Agriculture, Padannakkad
18. The Dean, College of Agriculture, Ambalavayal
19. The Dean, College of Co-operation Banking & Management, Vellanikkara
20. The Dean, College of Climate Change & Environmental Science, Vellanikkara
21. The Controller of Examinations
22. The Associate Director of Research, RARS, Pattambi
23. The Director (Planning)

Two members elected from among the post graduate students of the University

24. Abhishek.S
25. Arya A.P

One member elected from among the research students of the University

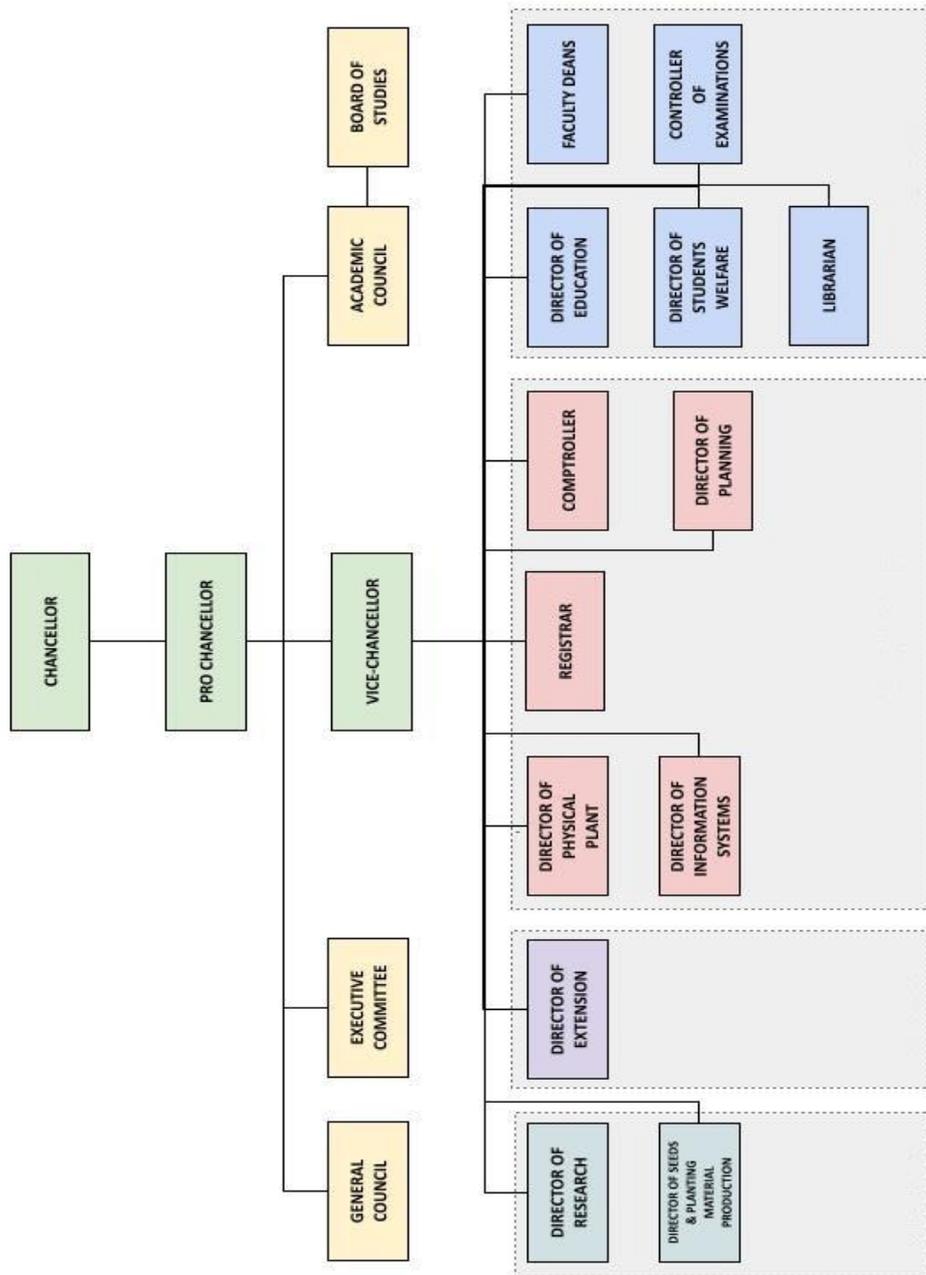
26. Omjinath M.S

FINANCE COMMITTEE

1. The Vice Chancellor
2. The Additional Secretary, Finance Department
3. The Comptroller
4. Member chosen by the Executive Committee from its non-official members (Vacant)
5. Member chosen by the Executive Committee from its ex-officio members (Vacant)

2- ORGANIZATION STRUCTURE

KERALA AGRICULTURAL UNIVERSITY ORGANOGRAM



Officers of the University

1	Vice Chancellor	Dr. B Ashok IAS
2	Registrar	Dr. A Sakeer Husain
3	Comptroller	Sri. Chandran V (Additional charge upto 10.09.2023) Sri. Madan Kumar K (from 11/09/2023)
4	Director of Research	Dr. Madhu Subramanian
5	Director of Extension	Dr. Jacob John
6	Dean of Faculty (Agriculture)	Dr. Roy Stephen
7	Dean of Faculty (Agricultural Engineering & Technology)	Dr. Jayan P.R.
8	Dean of Faculty (Forestry)	Dr. Anoop E V
9	Director of Physical Plant	Sri. Lal E T (From 01/05/2023 to 31/05/2023) Sri. Suresh Babu (From 01/06/2023 Continuing)
10	Director of Students Welfare	Dr. E G Ranjit Kumar
11	Librarian	Sri. Sreekumaran S
12	Director of Education	Dr. S Gopakumar
13	Controller of Examination	Dr. Dijee Bastin
14	Director of Planning	Dr. Berin Pathrose (From 20/08/2022 to 24/11/2023). Dr. Ani S Das (From 12/12/2023 to 12/01/2024) Dr. Berin Pathrose (From 29.02.2024 Continuing)
15	Director of Information Systems	Dr. P. O. Nameer
16	Director of Seeds & Planting Material Production	Dr. Anitha S
17	Dean, College of Agriculture, Vellanikkara	Dr. Mani Chellappan
18	Dean, College of Agriculture, Padannakkad	Dr. Sajitha Rani
19	Dean, College of Agriculture, Ambalavayal	Dr. Ajith Kumar K (Up to 30/06/2023) Dr. Yamini Varma (From 01/07/2023)
20	Dean, College of Co-operation, Banking and Management	Dr. K. N. Ushadevi
21	Dean, College of Climate Change and Environmental Science	Dr. P. O. Nameer

Headquarters and Directorates

Sl. No.	Name	Phone no.	Email ID	Website
1	General Administration	04872438012	registrar@kau.in	
2	Finance Wing	04872438062	comptroller@kau.in	
3	Directorate of Research	04872438102	dr@kau.in	http://research.kau.in/
4	Directorate of Extension	04872438202	de@kau.in	http://extension.kau.in
5	Directorate of Education	04872438132	diredu@kau.in	http://education.kau.in/
6	Directorate of Physical Plant	04872438152	dpp@kau.in	
7	Directorate of Students Welfare	04872438457	dsw@kau.in	https://dsw.kau.in/
8	Directorate of Planning	04872438107	dirplan@kau.in	
9	Directorate of Information Systems	04872438181	dis@kau.in	https://dis.kau.in/
10	Directorate of Seeds and Planting Material Production	04872438104	dirseeds@kau.in	

Educational Institutions

- 1 College of Agriculture, Vellayani, Thiruvananthapuram
Ph.no:0471 2381829/Email: coavellayani@kau.in/website: <http://coavellayani.kau.in>
- 2 College of Agriculture, Vellanikkara
Ph.no: 0487 2438301/Email: dean.coavka@kau.in/Website: <http://cohvka.kau.in>
- 3 College of Agriculture, Ambalavayal, Wayanad
Ph.no. 04936 260421/ Email ID - coamb@kau.in/dean.coamb@kau.in/
Website: <http://coawayanad.kau.in>
- 4 College of Agriculture, Padannakkad
Ph.no – 0467-228 2699, 9188256616 (Dean) & 0467- 228 0616 (Office)/Email ID – dean.coapad@kau.in (Dean), coapad@kau.in (Office)/Website: <http://coapad.kau.in>
- 5 College of Forestry, Vellanikkara
Ph.no. – 0487 243 8401/E-mail ID: deanforestry@kau.in/
Website – <http://forestry.kau.in>
- 6 College of Co-Operation Banking & Management, Vellanikkara
Ph.no: 0487-2438502/Email ID: dean.ccbm@kau.in, ccbm@kau.in/
Website: <http://ccbkm.kau.in>
- 7 College of Climate Change & Environmental Science, Vellanikkara
Ph.no: 0487-2439692/Email: dean.ccces@kau.in/Website: <http://ccces.kau.in>
- 8 Kelappaji College of Agricultural Engineering and Technology, Tavanur
Ph.no: 0494 2686214/Email ID: deanengg@kau.in, kcaet@kau.in/
Website: <http://kcaet.kau.in>
- 9 Institute of Agricultural Technology & RARS, Pattambi
Ph.no: 0466 2212228, 0466 2212275/Email: spoiatptb@kau.in/
Website: <http://rarsptb.kau.in/>

In addition to these, academic programs were conducted during the report year also at Agricultural Research Station, Mannuthy, Communication Centre, Mannuthy, Onattukara Regional Agricultural Research Station, Kayamkulam and Regional Agricultural Research Station, Kumarakom

Research Stations

- 1 Regional Agriculture Research Station, Pilicode
Ph.no: 0467-2260632, 0467-2260450/Email ID: adrpil@kau.in,
rarspil@kau.in/Website: <http://rarspil.kau.in>
- 2 Pepper Research Station, Panniyur
Ph.no: 0460-2227287/Email ID: prspaniyur@kau.in/
Website: <http://prspanniyur.kau.in/>
- 3 Regional Agriculture Research Station, Ambalavayal
Ph.no: 04936-260421/Email ID: rarsamb@kau.in/Website: <http://rarsamb.kau.in>
- 4 Agricultural Research Station, Anakkayam
Ph.no: 0483-2848239/Email ID: arsanakkayam@kau.in/
Website: <https://arsanakkayam.kau.in>
- 5 Regional Agricultural Research Station, Pattambi
Ph.no: 0466-2212228/Email.ID: adrptb@kau.in, rarsptb@kau.in/
Website: <http://rarsptb.kau.in>
- 6 Aromatic and Medicinal Plants Research Station, Odakkali
Ph.no: 0484-2658221/Email ID: amprs@kau.in/Website: <https://amprs.kau.in>
- 7 Banana Research Station, Kannara
Ph.no: 0487-2699087/Email.ID: brskannara@kau.in /
Website: <http://brskannara.kau.in>
- 8 Pineapple Research Station, Vazhakulam
Ph.no: 8281808856/Email ID: prsvkm@kau.in/Website: <https://prsvkm.kau.in>
- 9 Cashew Research Station, Madakkathara
Ph.no: 0487-2980339/Email ID: crsmadakkathara@kau.in/
Website: <https://crsmadakkathara.kau.in>
- 10 Agronomic Research Station, Chalakudy
Ph.no: 0487-2702116/Email ID: arschalakudy@kau.in/
Website: <https://arschalakudy.kau.in>
- 11 Agricultural Research Station, Mannuthy
Ph.no: 9446370726/Email ID: arsmannuthy@kau.in/
Website: <http://arsmannuthy.kau.in>

- 12 Plant Propagation and Nursery Management Unit, Vellanikkara
Ph.no: 0487-2438620, 0487-2438621/Email ID: centursery@kau.in
Website: <https://centnursery.kau.in/>
- 13 Fruit Crops Research Station, Vellanikkara
Ph.no: 0487-2373242/Email ID: prcvka@kau.in
- 14 Regional Agricultural Research Station, Kumarakom
Ph.no: 9447784771, 9447703321, 0481-2524421/Email ID: rarskum@kau.in/Website: <http://rarskum.kau.in/>
- 15 M.S. Swaminathan Rice Research Station, Moncompu
Ph.no: 0477-2702245/Email ID: mssrrsmoncompu@kau.in/
Website: <https://rrsmoncompu.kau.in>
- 16 Agricultural Research Station, Thiruvalla
Ph.no: 0469-2604181/Email ID: srsthiruvalla@kau.in
Website: <http://arsthiruvalla.kau.in/>
- 17 Rice Research Station, Vyttila
Ph.no: 0484-2809963/Email ID: rrsvyttila@kau.in
Website: <https://rrsvyttila.kau.in/>
- 18 Onattukara Regional Agricultural Research Station, Kayamkulam
Ph.no: 0479-2443192/Email ID: orars@kau.in/Website: <https://orars.kau.in/>
- 19 Coconut Research Station, Balaramapuram
Ph.no: 0471- 2400621/Email ID: crsbalaram@kau.in/
Website: <https://crsbalaram.kau.in/>
- 20 Farming Systems Research Station, Kottarakkara
Ph.no: 0474-2663535/Email ID: fsrskottarakkara@kau.in/
Website: <http://fsrskottarakkara.kau.in/>
- 21 Integrated Farming System Research Station, Karamana
Ph.no: 0471-2343586/Email ID: ifsrs@kau.in/Website: <https://ifsrskaramana.kau.in>
- 22 Regional Agricultural Research Station (Southern Zone), Vellayani
Ph.no: 0471-2383239/Email ID: adrvellayani@kau.in/
Website: <https://rarsvellayani.kau.in>

In addition to these research stations, there are centres like Cocoa Research Centre, Centre for Gender Studies in Agri & Farm Entrepreneurship Development, On Farm Research Centre, etc. and major laboratories like Pesticide Residue Research & Analytical Lab. The Rice Research Station at Moncompu under Kerala Agricultural University has been renamed as M.S. Swaminathan Rice Research Centre, in memory of the eminent agricultural scientist Dr. M.S. Swaminathan.

Extension Units

- 1 Communication Centre, Mannuthy
Ph.no: 0487-2370773/Email ID: ccmannuthy@kau.in/
Website: <http://ccmannuthy.kau.in/>
- 2 Agricultural Technology Information Centre, Mannuthy
Ph.no: 0487-2371340/Email ID: atic@kau.in/Website: <http://atic.kau.in/>
- 3 Central Training Institute, Mannuthy
Ph.no: 0487-2371104/Email ID: cti@kau.in/Website: <http://cti.kau.in/>
- 4 Public Relations Office, Mannuthy
Ph.no: 0487 2370051/Email ID: pro@kau.in
- 5 Agricultural Information and Sales Centre, Vengeri
Ph.no: 04952935850, Mob: 9188223584/Email ID: isckozhikode@kau.in
- 6 Extension Training Centre , Manjeswar
Ph.no: 0499 8202203/Email ID: etcmanjeswar@kau.in
- 7 KVK, Thrissur
Ph.no: 0487-2375855/Email ID: kvkthrissur@kau.in/Website:
<https://kvkthrissur.kau.in/>
- 8 KVK, Palakkad
Ph.no: 0466 2212279/Email ID: kvkpalakkad@kau.in/Website:
<https://kvkpalakkad.kau.in/>
- 9 KVK, Malappuram
Ph.no: 0494 2686329/Email ID: kvkmalappuram@kau.in/
Website: <https://kvkmalappuram.kau.in/>
- 10 KVK, Kottayam
Ph.no: 0481-2523421/Email ID: kvkkottayam@kau.in/
Website: <https://kvkkottayam.kau.in/>
- 11 KVK, Kollam
Ph.no: 0474-2663599/Email ID: kvkkollam@kau.in /
Website: <https://kvkkollam.kau.in/>
- 12 KVK, Wayanad
Ph.no: 04936260411/Email ID: kvkwayanad@kau.in/
Website: <https://kvkwayanad.kau.in/>
- 13 KVK, Kannur
Ph.no: 04602267459/Email ID: kvkkannur@kau.in/Website: <https://kvkkannur.kau.in/>
- 14 University Press, Mannuthy
Ph.no: 0487-2370405/Email ID: unipress@kau.in

In addition to these, the Centre for e-Learning and Training Service Scheme also come under the purview of Extension wing.

Engineering Units

- 1 Engineering Division, Tavanur
Ph.no: 0494-2968258/Email ID: edtavanur@kau.in
- 2 Engineering Division, Kumarakom
Ph.no: 0481-2524621/Email ID: edkumarakom@kau.in
- 3 Engineering Subdivision, Vellanikkara
Ph.no: 0487- 2438624/Email ID: esdvka@kau.in
- 4 Electrical Subdivision, Vellanikkara
Ph.no: 0487-2438629/Email ID: elsdvka@kau.in
- 5 Mechanical Subdivision, Vellanikkara
Ph.no: 0487-2438626/Email ID: msdvka@kau.in
- 6 Engineering Subdivision, Mannuthy
Ph.no: 0487-2370127/Email ID: esdmannuthy@kau.in
- 7 Engineering Subdivision, Kumarakom
Email ID: esdkumarakom@kau.in
- 8 Engineering Subdivison, Vellayani
Email ID: esdvellayani@kau.in
- 9 Electrical Subdivison, Vellayani
Email ID: elsdvellayani@kau.in

Internal Audit Circles

- 1 Internal Audit Circle (CR)
Ph.no: 0487-2438065/Email ID: dc-iaccr@kau.in
- 2 Internal Audit Circle (SR)
Ph.no: 0471-2381002/Email ID: iacvellayani@kau.in
- 3 Internal Audit Circle (NR)
Ph.no: 0495-2730614/Email ID: iackozhikode@kau.in

Other Institutions

Central Library, Vellanikkara

Ph.no: 04872438551/Email ID: librarian@kau.in/Website: <http://library.kau.in/>

KAU High School, Vellanikkara

Ph.no: 04872373481/Email ID: schoolvka@kau.in

KAU Estate, Vellanikkara

Ph.no: 04872438616/Email ID: estatevka@kau.in

3 - HUMAN RESOURCES

Appointment, retirement, etc. during the report year

Teaching Staff

Cadre	Appointed	Retired	VRS	Relieved/ resigned	Compulsorily retired/ Removed/ dismissed
Professor	-	15	-	-	-
Associate Professor	-	1	-	-	-
Assistant Professor	-	-	-	4	-

Non-teaching staff

Cadre	Appointed			Retired	VRS	Relieved/ resigned	Compulsorily retired/ Removed/ dismissed
	Direct	Promotion by- transfer	Comp. appointment				
Computer Assistant	13	-	-	-	-	16	-
Assistant	10	3	-	2	-	5	-
Section Officer	-	11	-	2	-	-	-
Assistant Registrar	-	8	-	8	-	-	-
Deputy Registrar	-	4	-	-	-	-	-
Joint Registrar	-	0	-	1	-	-	-
Farm superintendent	-	9	-	9	-	-	-
Farm Manager Gr. I	-	7	-	-	-	-	-
Training/ Tech. Asst/Tech. Officer	-	-	-	1	-	-	-
Scientific Officer	-	4	-	2	-	-	-
Executive Engineer (Civil)	-	2	-	3	-	-	-
Asst.Exe.Engr. (Civil)	-	2	-	2	-	-	-
Asst. Engineer (Civil)	1	-	-	-	-	-	-
Asst. Exe. Engr. (Electrical)	-	1	-	-	-	-	-

Cadre	Appointed			Retired	VRS	Relieved/ resigned	Compulsorily retired/ Removed/ dismissed
	Direct	Promotion by- transfer	Comp. appointment				
Last Grade Servant	-	-	-	21	-	13	-
HDV Driver	-	-	-	1	-	-	-
Tractor Driver	-	-	-	1	-	-	-
Pump Operator	-	-	-	1	-	-	-
Lab Assistant Gr.II	-	5	-	1	-	-	-
Clerical Assistant/Lab Asst. Gr. III	-	13	-	-	1	-	-

Posts created/abolished during the report year

Teaching Staff

Cadre	Sanctioned Strength as on 01.04.2024	Created During the year	Abolished During the year
Assistant Professor	498	0	0
Associate Professor	180	0	0
Professor	88	0	0

Non-teaching staff

Cadre	Sanctioned Strength as on 01.04.2024		Created During the year		Abolished During the year	
	Permanent	Temporary	Permanent	Temporari y	Permane nt	Tempo rary
Asst. Registrar/Asst. Comptroller/Admn. Officer	19	0	0	0	0	0
Artist	2	0	0	0	0	0
Assistant	334	0	0	0	0	0
Asst. Engineer (Mech.)	1	0	0	0	0	0
Asst. Engineer (Civil)	19	0	0	0	0	0
Asst. Engineer (Electrical)	4	0	0	0	0	0
Asst. Engineer (Electronics)	1	0	0	0	0	0
Asst. Exe. Engineer (Civil)	6	0	0	0	0	0
Asst. Exe. Engineer (Electrical)	2	0	0	0	0	0
Asst. Exe. Engineer (Mech.)	1	0	0	0	0	0
Asst. Librarian	9	0	0	0	0	0

Ayah	4	0	0	0	0	0
Binder	8	0	0	0	0	0
Boat Driver	1	0	0	0	0	0
Bus Attendent	11	0	0	0	0	0
Chief Security Officer	1	0	0	0	0	0
Last Grade Servants	271	0	0	0	0	0
Clerical Asst./Lab Asst. Gr.III	87	0	0	0	0	0
Compositor	5	0	0	0	0	0
Computer Assistant	134	0	0	0	0	0
Computer (Press)	1	0	0	0	0	0
Cook cum caretaker	3	0	0	0	0	0
Daffedar	1	0	0	0	0	0
Driver cum Office Attendant (Heavy Goods/Passenger vehicle)	15	0	0	0	0	0
Driver (LDV)	68	0	0	0	0	0
Duplicating Machine Operator	9	0	0	0	0	0
Deputy.Reg/Dy. Comptroller/Administrat ive Officer Gr.I	7	0	0	0	0	0
Exe. Engineer	2	0	0	0	0	0
Farm Asst (Vety) / FS GR-II	14	0	0	0	0	0
Farm Manager Gr-I	20	0	0	0	0	0
Farm Officer (Agri)/Farm Manager Gr-II	161	0	0	0	0	0
Farm Superintendent (Agri)	20	0	0	0	0	0
Farm Supervisor Gr. I (Vety)	2	0	0	0	0	0
General Forman	1	0	0	0	0	0
Head Master	1	0	0	0	0	0
Helper	1	0	0	0	0	0
High School Asst.	8	0	0	0	0	0
Hostel Manager	7	0	0	0	0	0
Jr. Foreman	1	0	0	0	0	0
Programmer (Previously Jr. Programmer)	10	0	0	0	0	0
Lab Asst. Gr. I/Gr.II	32	0	0	0	0	0
Labour Officer	1	0	0	0	0	0
Lib Asst./Tech.Asst/Ref. Asst	19	0	0	0	0	0
Librarian	1	0	0	0	0	0
Lineman	2	0	0	0	0	0
LP School Asst.	8	0	0	0	0	0

Matron	4	1	0	1	0	0
Nursery School Asst.	4	0	0	0	0	0
Office Superintendent & Office Superintendent (HG)	42	0	0	0	0	0
Overseer Grade I (Civil)	11	0	0	0	0	0
Overseer Grade II(Civil)	12	0	0	0	0	0
Overseer Grade I (Electrical)	2	0	0	0	0	0
Overseer Grade II(Electrical)	3	0	0	0	0	0
Overseer Grade II (Mechanical)	1	0	0	0	0	0
Photographer	1	0	0	0	0	0
Pool officer	1	0	0	0	0	0
Press Manager	1	0	0	0	0	0
Printer	8	0	0	0	0	0
Public Relation Officer	1	0	0	0	0	0
Senior Programmer (Previously Programmer)	3	0	0	0	0	0
Proof Reader	2	0	0	0	0	0
Pump Operator/OilEngine Driver	27	0	0	0	0	0
Section Officer	111	0	0	0	0	0
Senior Farm Supervisor (Vety.)	1	0	0	0	0	0
Specialist Teacher	3	0	0	0	0	0
Sr.Dy.Compt /Sr.AO/Jt. Registrar	4	0	0	0	0	0
Sr. Foreman	1	0	0	0	0	0
Systems Manager	1	0	0	0	0	0
Tech. Assistant/ Tech. Officer	11	0	0	0	0	0
Technician	33	0	0	0	0	0
Tractor Driver	16	0	0	0	0	0
Trade Asst.	5	0	0	0	0	0
Trg./Tech. Asst	22	0	0	0	0	0
UP School Asst.	7	0	0	0	0	0
Vehicle Supervisor (LDV)	1	0	0	0	0	0
Electrician	12	0	0	0	0	0
Instructor (IAT Pattambi)	0	6	0	6	0	0
Total	1686	7	0	7	0	0

Manpower available as on 31.03.2024

Teaching staff	In position			
	Regular	Deputation	Contract	Dailywage
Cadre				
Assistant Professor	364	0	0	0
Associate Professor	24	0	0	0
Professor	106	0	0	0

Non-Teaching staff	In position			
	Regular	Deputation	Contract	Dailywage
Cadre				
Assistant Registrar/ Assistant Comptroller/Administrative Officer	19	0	0	0
Artist	0	0	0	0
Assistant	307	0	0	28
Asst. Engineer (Mech.)	0	0	0	1
Asst. Engineer (Civil)	0	0	0	10
Asst. Engineer (Electrical)	1	0	0	1
Asst. Engineer (Electronics)	0	0	0	0
Asst. Exe. Engineer (Civil)	2	0	0	0
Asst. Exe. Engineer (Electrical)	2	0	0	0
Asst.Exe. Engineer (Mech.)	1	0	0	0
Asst. Librarian	7	0	0	1
Ayah	0	0	0	4
Binder	0	0	0	6
Boat Driver	0	0	0	1
Bus Attendant	5	0	0	3
Chief Security Officer	0	0	0	0
Last Grade Servants	197	0	0	45
Clerical Asst./Lab Asst. Gr.III	84	0	0	2
DTP operator	0	0	0	3
Computer Assistant	129	0	0	5
Computer (Press)	0	0	0	0
Cook cum caretaker	0	0	0	1
Daffedar	1	0	0	0
Driver cum Office Attendant (Heavy Goods/Passenger vehicle)	0	0	0	12
Driver (LDV)	34	0	0	29
Duplicating Machine Operator	8	0	0	0
Deputy.Reg/Dy.Comptroller/Administrative Officer Gr.I	7	0	0	0
Exe. Engineer	0	0	0	0
Farm Asst (Vety.) / FS GR-II	2	0	0	7
Farm Manager Gr-I(Agri.)	19	0	0	1

Farm Officer (Agri)/Farm Manager Gr-II	2	0	0	129
Farm Superintendent (Agri.)	20	0	0	0
Farm Supervisor Gr.I (Vety.)	2	0	0	0
General Forman	0	0	0	0
Head Master	0	0	0	0
Helper	1	0	0	0
High School Asst.	0	0	0	8
Hostel Manager	0	0	0	7
Jr. Foreman	0	0	0	0
Programmer (Previously Jr. Programmer)	5	0	0	2
Lab Asst. Gr. I/Gr.II	29	0	0	2
Labour Officer	1	0	0	0
Lib Asst./Tech.Asst/Ref.Asst	18	0	0	1
Librarian	0	0	0	0
Lineman	0	0	0	1
LP School Asst.	8	0	0	0
Matron	1	0	0	3
Nursery School Asst.	0	0	0	4
Office Superintendent & Office Superintendent (HG)	37	0	0	0
Overseer Grade I (Civil)	0	0	0	0
Overseer Grade II(Civil)	0	0	0	10
Overseer Grade I (Electrical)	1	0	0	0
Overseer Grade II(Electrical)	0	0	0	3
Overseer Grade II (Mechanical)	0	0	0	1
Photographer	0	0	0	1
Pool officer	1	0	0	0
Press Manager	0	0	0	0
Printer	0	0	0	3
Public Relation Officer	0	0	0	0
Senior Programmer (Previously Programmer)	3	0	0	0
Proof Reader	0	0	0	1
Pump Operator/OilEngine Driver	7	0	0	10
Section Officer	111	0	0	0
Senior Farm Supervisor (Vety.)	1	0	0	0
Specialist Teacher	0	0	0	3
Sr.Dy.Compt/Sr.AO/Jt.Registrar	4	0	0	0
Sr.Foreman	0	0	0	0
Systems Manager	0	0	0	0
Tech. Assistant/ Tech. Officer	0	0	0	4
Technician	0	0	0	9
Tractor Driver	7	0	0	6
Trade Asst.	0	0	0	5
Trg./Tech. Asst	5	0	0	10

UP School Asst.	0	0	0	7
Vehicle Supervisor (LDV)	1	0	0	0
Electrician	1	0	0	6
	1091	0	0	396

Labourer

Post	Sanctioned Posts		In position	
	Men	Women	Men	Women
Permanent Labourer	793	798	585	604
Casual Labourer			100	199

Supernumerary posts created or abolished during 2023-2024: NIL

Deputation/leave sanctioned for attaining higher qualifications

Cadre	Higher qualification	Sanctioned during the year	No .of persons on such leave during the year
Assistant Professor	PhD	1 Year	5
Assistant Professor	PhD	3 Year	4
Last Grade Servant	-	Nil	1

Trainings Attended

Cadre	University level	State level	National level	International level
Professor	57	18	10	7
Associate Professor	19	2	10	0
Assistant Professor	219	62	176	38
Non-teaching staff	472	3	6	0

Meritorious service awards, etc. (from National/ International agencies or Govt.)

Cadre	Honour	Remarks
Professor	Best Agronomist	Award accorded to Dr. Jacob John, Director of Extension, KAU. Presented during conduct of International Conference on "Protected cultivation of horticultural crops, post-harvest handling and digital agriculture" organized by the Dept. Of horticulture, Naini Agricultural Institute, Sam Higginbottom university of

		Agriculture, technology and Sciences (SHUATS), Prayagraj, Uttar Pradesh.
Assistant Professor	Best Oral Presentation Award	International conference on Emerging Innovations for Sustainable Agriculture: Leveraging the potential of digital innovations by farmers agritech startups & agribusiness enterprises in Agriculture 5.0 organized by Vellore Institute of Technology, Vellore held from 02.02.2024 to 03.02.2024. Award accorded to Dr. Darsana S., Asst. Prof., CTI, Mannuthy
Professor	Fellow Eurasian Academy of Environmental Science	Award accorded to Dr. B. Ramesha, Professor and Head, ETC Manjeswar
Professor	Fellow Entomological Society of India	Award accorded to Dr. B. Ramesha, Professor and Head, ETC Manjeswar
Professor	ISAE fellowship 2023 in agricultural processing and technology	Presented in 57th Annual Convention and International Symposium organised by ISAE, New Delhi and UAS, Raichur at UAS, Raichur. Award accorded to Dr. K.P Sudheer, Professor & Head KAU-ABI
Dr. Viji M.M., Professor, Department of Plant Physiology	Best Research Paper Award (Poster)	National Conference on Tropical Tuber Crops for Sustainability, Tradition, Agri-Food Systems & Resilience held from 28-29 November 2023 at ICAR-CTCRI, Trivandrum
Dr. Roy Stephen, Professor, Department of Plant Physiology	Best poster award	AICSA 2024 KAU-CORTEVA International Plant Symposium, College of Agriculture, Vellayani
Dr. Manju R.V., Professor, Department of Plant Physiology	Best poster award	International Biotechnology Conclave organized by KAU & Sree Chitra Tirunal Institute for Medical Sciences and Technology, Thiruvananthapuram, held from 7th to 11th August 2023, at College of Agriculture, Vellayani.
Dr. Beena R, Assistant Professor, Department of Plant Physiology	1. Best Research Paper Award (Oral) 2. First position in poster presentation competition 3. Best poster award	National Symposium on plant health management- current trends conducted by Indian Phytopathological Society and ICAR-CTCRI during 11-12 September 2023. DST-SERB under “ABHYAS” on “Food Matrix characterization techniques: Nutrients to nutrient bioavailability” by ICAR-IARI High End Workshop by Anusandhan National Research Foundation (ANRF).
Dr. K Karthikeyan, Professor	Fellow of Society of Advancement of Rice Research	AICRIP (IIRR, Hyderabad)
Dr. B Shanmugasundaram	Recognition for Transfer of Technology	Received in the First International Extension Education Congress-2023 on Transformation

Professor		and Sustainable Agri Food system through Community based organisation oriented Extension Strategy organised by Society of Extension at Jaipur from December 18-19,2023
Dr.S.M.Purushothaman , Professor	Third best poster award for the paper In vitro evaluation of different bacteriophage containing organics and agrochemicals against bacterial leaf blight of rice	In the International conference on Bacteriophage Research and Antimicrobial Resistance ICBRAR, 2023 held at University of Madras 600025 from 28th to 30th September 2023
Dr. Thulasi V Associate Professor	Best Researcher Award Fellow of the Eurasian Academy of Environmental Sciences	Dept of Agriculture, Govt. of Kerala Eurasian Academy of Environmental Sciences
Banana Research Station, Kannara	Top performing Centre in implementation of the special programme on SC SP	AICRP (F) – ICAR XIth Group discussion on January 22 to 25th 2024, at Navsari Agricultural University, Gujarat
Banana Research Station, Kannara	AICRP (F) – Second position for excellent performance in the year 2023 - 24	AICRP (F) – ICAR XIth Group discussion on January 22nd to 25th 2024, at Navsari Agricultural University, Gujarat.
Gavas Ragesh, Royce T Cumming, Sureshan, P M & Karthikeyan	Best oral presentation award Notes on Leaf Insect “Queen of Guava plant” Pulchriphyllium anangu Cumming et al, 2023 from the first ever captive colony in India	International conference on Next – Gen Preparedness for food security and environmental sustainability at Assam Agricultural University, Jorhat on 22nd – 24th November 2023
Darsana Dilip K C, Vimi Louis, H S Savithri, Namitha P M	Best poster award - Surmounting challenges in Banana bunchy top virus research: Optimizing recombinant coat protein production and stability	VIROCON-2023: “Advancements in Global Virus Research Towards One Health” Tiruchirappalli on 1st – 3rd December, 2023
Aparna K Gokul, Vimi Louis, Deepu Mathew	Best poster award - Ligation independent cloning method for developing RNAi construct against Banana Bunchy Top Virus	National symposium on "Plant Health Management: Current Trends and Novel Mitigation Strategies" at ICAR-CTCRI and Indian Phytopathological Society organized at ICAR- CTCRI, Thiruvananthapuram on 11th – 12th September 2023
Dr. A. Latha, Professor	Best Agronomist award	In 6th International Conference "Holistic Innovations and Technological Advances for Sustainable Agriculture" (HITASA-2024) from 04-06 March, 2024 at Hyderabad
Dr. Bino P Bonny, Professor	ICAR-NAHEP-CAAST Fellowship	International Training at ARU, Cambridge, UK
Rose Mathews, PhD Scholar	ICSSR Short term Fellowship 2023-24	PhD research work
Dr.Rajalekshmi K,	Special Research award	5th International conference on sustainable

Assistant Professor	2022 Soil Conservation of India	contribution for Natural Resource management under global climate change 2023
Mrs. Sharon Jacob, PhD Scholar & Dr. Saji Gomez, Professor	Best Poster with First Prize	National Seminar on 'Advances in Functional Foods and Nutraceuticals: Bioactive compounds, Fermentation and Value Addition' organized by Association of Food Scientists and Technologists (India), Thrissur Chapter in association with Kerala Veterinary and Animal Sciences University for 'Nutraceutical Potential of Wild Edible Plants Consumed by tribals of Western Ghats
Mrs. Sharon Jacob PhD scholar	Young Researcher Award	6th International Conference on 'Holistic Innovations and Technological Advances for Sustainable Agriculture' (HITASA -2024) organized by SR University, Warangal
Dr.Saji Gomez, Professor	Best Original Research Paper	Waste into Wealth-Profiling and Value Addition of Phytolipids from Garcinia species' in technical session of post-harvest technology at PLACROSYM XXV (National Symposium for Plantation Crops) organized by Indian Institute of Oil Palm research, Pedevagi
Netravati, Gomez, S., Pathrose, B., Raj, M, Joseph, M., and Kuruvila, B	Comparative evaluation of anthocyanin pigment yield and its attributes from Butterfly pea (<i>Clitoria ternatea</i> L.) flowers as prospective food colourant using different extraction methods. Future Foods,6:1-9.	One research article was linked to the UN Sustainable Development Goals.
AICRP on PHET, Tavanur Centre, KAU	Best AICRP centre award for Second best AICRP-PHET	Annual Workshop
Er. Sindhu Bhaskar, Assistant Professor	Krishijwala's award for the best agricultural Engineer (by Farmers Association of India)	Harithacharth Aadharav 2023 at Thrissur on 20/05/2023
Dr. Anu Varughese, Assistant Professor	Best JAEI Research Paper Award-2023	57th Annual convention of Indian Society of Agricultural Engineering on November 06th to 8th 2023 at University of Agricultural Science, Raichur
Dr. Jacob John Professor and Head & DoE	Best Agronomist award	International Conference organized by, Sam Higginbottom University of Agriculture, Technology and Sciences (SHUATS), Prayagraj, Allahabad, UP from 29 – 30 November, 2023
Dr. Sajeena A Assistant Professor	Guman Devi Verma Memorial for Best Woman Scientist award	ISMM 3rd Asian Congress 7 -10 Feb 2024
AICRP on Honey Bees & Pollinators, Vellayani	'Best Research Centre' Award 2023	Annual Review Meeting 2023 held at UAS, Bangalore from 4th – 6thSeptember, 2023.
Dr. Beena Thomas,	Best Teacher Award	Outstanding contribution in the field of

Assistant Professor		Genetics & Plant Breeding in 1st International Agriculture Conference on “Natural VS organic farming: in context to Bharatiya agriculture; 24-26 December 2023 organised by Gujarat Natural farming and Science University, Anand and Hindustan Agricultural Research Welfare Society and IIMTU, Meerut (Hybrid mode)
Ms. Ninitha Nath C., Assistant Professor	Best oral presentation award Kaipad- A unique indigenous rice ecosystem of Kerala "	VII th International conference on GRISAAS during 21-23 November 2023 held at Birsa Munda Agricultural University, Ranchi, Jharkand
Ms. Adheena Ram, Assistant Professor	Best Oral Presentation Award	National Conference on ‘Tribal Horticulture’ organized by Dr. YSR Horticultural University, Andhra Pradesh from 17-18 October, 2022
Arya S Nair (2021-21-051)	Best Poster Presentation Prize Identification of Dual-purpose Fodder Cowpea [Vigna unguiculata (L.) Walp] through Induced Mutagenesis	In the International Conference on Feeding the Future through Sustainable Eco-friendly Innovations in Rangeland, Forages and Animal Sciences. Jointly Organised by Range Management Society of India, Jhansi, India ICAR- Indian Grassland and Fodder Research Institute Jhansi, UP, India & University of Agricultural Sciences, Bangalore on 2-4 December, 2023 at University of Agricultural Sciences, Bangalore
Visakh R.L (2021-21-025)	Best Poster Presentation Award entitled Horse gram: Cultivating the Future of Sustainable Agriculture	1st International Agriculture Conference on “Natural VS organic farming: in context of Bharatiya Agriculture; 24-26 December 2023 organised by Gujarat Natural farming and Science University, Anand and Hindustan Agricultural Research Welfare Society and IIMTU, Meerut (Hybrid mode)
Visakh R.L (2021-21-025)	Second prize	Quiz competition in AICSA 2024 KAU - Corteva International Plant Science symposium
Dr. Ameena M., Professor	Best Poster Award	Biennial National Symposium on “Climate Smart Agronomy for Resilient Production Systems and Livelihood Security" 22- 24 November, 2023 held at ICAR-CCARI, Goa
Dr. Sheeja K.Raj., Assistant Professor	Best Paper Award	“High throughput crop improvement” in the KAU-Corteva International Plant Science Symposium 2024, held at College of Agriculture, Vellayani, Thiruvananthapuram, Kerala, India 18-19 January 2024.
Dr. Sanju Balan, Assistant Professor	Best oral presentation award	Technical session Interdisciplinary approaches in plant disease management at National Conference on Plant Health for Food Security: Threats and Promises held at ICAR-IISR, Lucknow from February 1-3, 2024
Dr Anu Susan Sam Assistant Professor	Membership for five years (2024-2029) in Global Young Academy	
Dr Anu Susan Sam Assistant Professor	Best oral presentation	National Conference on “Reviving Wetlands organized by Centre for Water Resources

		Development and Management (CWRDM), Kozhikode on 11-13 October 2023
Dr. Ajith P.M, Assistant Professor	Conferred with Fellow of Eurasian Academy of Environmental Sciences	
Dr. Sreeram V, Assistant Professor	Best oral presentation award	National Seminar-NexGen Extension for Evolving Resilient Agri Ecosystem (25th-27 September 2023) by the Extension Education Institute (EEI), Hyderabad along with Professor Jayshankar Telengana State Agricultural University (PJ TSAU)
Dr. Sreeram V Assistant Professor	Best oral presentation award	National Seminar-Indian Agriculture@75-Achievements, challenges, and way forward (20-21 July 2023) by the Department of Economics, School of Management, Pondicherry University, sponsored by the Indian Council of Social Science Research (ICSSR).

Disciplinary action

Cadre	Instances	Remarks
Teaching	7	<ol style="list-style-type: none"> 1. Disciplinary action against 5 teachers were finalized by terminating them from service. 2. One resigned from the service 3. One disciplinary action was finalized by giving censure
Non-Teaching	8	<ol style="list-style-type: none"> 1. Disciplinary action was finalized by imposing minor to major penalties against 7 employees 2. Disciplinary action not finalized against an employee.

4 - EDUCATION

Academic Programmes

Sl. No.	Programmes offered	No. of seats	Tuition fees per semester (in Rupees)	Total no of students in the programme *
UG (4-year duration)				
1	B.Sc (Hons)Agriculture	464	11,980 - Semester I 9,580 – Semester II onwards	1825
2	B.Tech Biotechnology	40		156
3	B.Sc (Hons)Cooperation & Banking	43		188
4	B.Sc (Hons) Climate Change & environmental Science	30		108
5	B.Tech Agri.Engg.	50		182
6	B.Tech Food Technology	30		82
7	B.Sc (Hons)Forestry	33		131
8	B.Sc (Hons)Agriculture	40	1,00,000/-	27
PG (2-year duration)				
9	Molecular Biology & Biotechnology	27	16,710 – Semester I 13,510 - Semester II onwards	19
10	Seed Science & Technology	7		13
11	Agricultural Statistics	5		8
12	Nematology	4		7
13	Plantation, Spices, Medicinal & Aromatic Crops	11		22
14	Agronomy	26		54
15	Agricultural Entomology	23		44
16	Agricultural Extension Education	24		34
17	Genetics & Plant Breeding	18		34
18	Plant Pathology	26		48
19	Soil Science	25		50
20	Plant Physiology	10	6	
21	Food & Nutrition	12	18	

22	Microbiology	8		12
23	Agricultural Economics	19		33
24	Fruit Science	8		15
25	Vegetable Science	8		16
26	Post-Harvest Technology	7		13
27	Agricultural Meteorology	5		9
28	Floriculture & Landscaping	8		17
29	Development Economics	5	10,380/-	4
30	Rural Marketing Management	2	16710 – Semester I 13510 - Semester II onwards	2
31	Co-operative Management	2		2
32	M.Tech Soil & Water Conservation Engineering	8		3
33	M.Tech Farm Machinery & Power Engineering	6		4
34	M.Tech Processing & Food Engineering	5		5
35	Silviculture & Agroforestry	4		7
36	Forest Resource Management	4		7
37	Forest Biology & Tree Improvement	4		7
38	Forest Products & utilization	4		7
39	Wild Life Science	4		4
B.Sc M.Sc Integrated Courses (5 years duration)				
40	B.Sc M.Sc Integrated Climate Change Adaptation	20	42,480	16
41	B.Sc M.Sc Integrated Biotechnology	20	40,880	19
PhD (3 years duration)				
42	Agricultural Meteorology	2	17500 – Semester I 13510 - Semester II onwards	2
43	Molecular Biology & Biotechnology	7		4
44	Plantation, Spices, Medicinal & Aromatic Crops	4		12
45	Agronomy	14		24
46	Entomology	13		23
47	Agricultural Extension Education	12		18

48	Genetics & Plant breeding	9		17
49	Plant Pathology	13		17
50	Soil Science	14		15
51	Plant Physiology	6		8
52	Food & Nutrition	8		16
53	Microbiology	3		4
54	Agricultural Economics	6		8
55	Fruit Science	4		6
56	Vegetable Science	6		10
57	Post-Harvest Management	3		3
58	Floriculture & Landscaping	4		9
59	PhD Soil Science & Water Conservation Engineering	5		2
60	PhD Farm Machinery & power Engineering	4		4
61	PhD Processing & Food Engineering	1		2
62	Silviculture & Agroforestry	2		7
63	Forest Biology & Tree Improvement	2		3
64	Forest Resource Management	2		3
65	Forest Products & Utilization	2		4
66	Wild life Science	2		3
67	Animal Science	6 3 (Full time) 3(Part time)	24,000/- (Full time students) 49,000/- (Part time students)	4
68	Applied Microbiology	5	1,00,000/-	2
Diploma (2 years duration)				
69	Diploma in Agriculture Science	50	25,000/-	124
70	Diploma in Organic Agriculture	30	25,000/-	59
71	Diploma in Agricultural Mechanization	25	25,000/-	8
PG Diploma (1-year duration)				
72	Food Industry Management and Quality Control	20	50,000/-	8

73	Integrated Farm Management	25	12,500/-	15
74	Horticultural Therapy	15	25,000/-	3
75	Landscaping and Ornamental Gardening	20	25,000/-	8

**(Inclusive of that from 1st Sem. to last Sem.)*

Admission

UG Programme

Admissions are conducted by the Commissioner for Entrance Examinations (CEE), KEAM, Government of Kerala and ICAR. Courses and colleges will be allotted by the Commissioner for Entrance Examinations, according to the options submitted by the candidates to CEE and based on the Rank list of the NEET examination for 85% seats. The remaining 15% will be filled by ICAR from AIEEA – UG – Rank List.

PG Programme

Admissions are conducted based on ICAR AIEEA – PG Rank list and other criteria. KAU conducts entrance examination for admission to Community Science and Co-operation and Banking Management programme. 30% seats are filled by ICAR from AIEEA – PG – Rank List.

Doctoral Programmes

Admissions are conducted based on ICAR AICE-JRF/SRF (PhD) Rank list and other criteria. KAU conducts entrance examination for admission to Community Science and Co-operation and Banking Management programme. 30% seats are filled by ICAR from AICE-JRF/SRF (PhD) Rank list.

MBA in Agri-business Management

Admissions are conducted by Kerala Agricultural University and ICAR. A rank list is prepared by KAU on the basis of the score secured in the KMAT/CAT/CMAT and the Group Discussion and Personal Interview to be conducted by KAU. 05 seats reserved for candidates selected through All India Competitive Examination conducted by ICAR, Govt. of India. 05 seats reserved for candidates sponsored by Agribusiness Organisations/Govt. Departments / Agencies & Institutions including Kerala Agricultural University. (Should possess minimum 3 years of experience while applying). Over and above the maximum, 05 seats are earmarked for international candidates nominated by the Government of India.

Diploma Course

Admissions are conducted from the rank list prepared by Kerala Agricultural University based on the Entrance Examination.

Major achievements, developments, academic collaborations, etc. during the report year

- KAU secured 15th rank under NIRF India Rankings 2023 (Agriculture and allied sector category)
- KAU Convocation Ceremony 2022 was held on 03/06/2023 at Central Auditorium, Vellanikkara. Hon'ble Kerala Governor and Chancellor Shri. Arif Mohammad Khan distributed various awards, degree and diploma certificates to the students.
- Launched new courses (two new doctoral programs, nine new PG diploma courses, four new B.Sc.-M.Sc. (Integrated) programs, seven new Master's programs and one Diploma program).
- Launched a 40-seat B.Sc (Hons) Agriculture course at RARS, Kumarakam with a new fee structure.
- Started Diploma in Agricultural Sciences course at ORARS, Kayamkulam
- Started Diploma in Agricultural Mechanization course at ARS, Mannuthy.
- Inked an MOU with Western Sydney University, Australia for implementing new Dual UG programs.
- KAU's College of Forestry secured accreditation with A++ rating for 5 years from the Indian Council of Forestry Research and Education (ICFRE), Dehradun.
- Uploaded 4998 academic records in NAD Digilocker
- Established a portal for online submission of applications for various academic certificates
- Established a mechanism for online allotment in PG/PhD admissions
- Instituted Rolling admission process for PhD
- Extended KAU AMS portal to the PG and PhD programmes

Scholarships and Fellowships

1. ICAR PG Scholarship	-	1
2. ICAR NTS	-	3
3. ICAR SRF	-	5
4. ICAR JRF	-	12
5. Erasmus Mundus	-	3
6. NTS	-	13
7. ICAR NET	-	11
8. UGC NET	-	7
9. NTS UG	-	7
10. Inspire Fellowship	-	1
11. NFST Fellowship	-	1

PhD. thesis submitted during the report year

Sl. No.	Discipline	Thesis	Student
1	PhD (Agriculture) Agronomy	Bridging Productivity Loss in aerobic Rice (<i>Oryza sativa</i> L.) Through Land Configuration And Intercropping.	Shahana Begum (2018-21-007)
2	PhD (Co.operation and Banking) Rural Marketing Management	Marketing Strategies for Export of Cashew in Kerala	Haritha Paul (2019-25-001)
3	PhD (Agriculture) Agricultural Economics	Land use dynamics in Kerala – A Multidimensional analysis.	Shilpa Mathew (2019-21-010)
4	PhD (Horticulture) Post Harvest Technology	Evaluation and Utilisation of Plant Pigments as Natural Food Colourants	Netravati (2019-22-020)
5	PhD (Agriculture) Soil Science & Agricultural Chemistry	Residue Distribution and Mobility of Chlorantraniliprole Formulations in Soil and its uptake by rice (<i>Oryza sativa</i> (L.))	Greeshma Suresh (2018-21-034)
6	PhD (Agriculture) Agricultural Extension	Effectiveness of Microfinance Services for agro- Enterprise Development by the self-help groups (SHGs) in Kerala	Reshma J Murugan (2017-21-010)
7	PhD (Agriculture) Agricultural) Entomology	Pollination Ecology of Solitary Pollen Bees	Anusree Padmanabhan P S (2017-21-035)
8	PhD (Agriculture) Plant Pathology	Analysis of Pathotypic variability of <i>Xanthomonas oryzae</i> Pv. <i>Oryzae</i> , The bacterial blight pathogen of rice and Identification of New Sources of resistance	Aparna V S (2017-21-019)
9	PhD (Agriculture) Agricultural Extension	Natural resource management and community participation- A study on Watershed Development Projects in Kerala	Silpa R C (2018-21-016)
10	PhD (Agriculture) Soil Science & Agricultural Chemistry	Evaluation of Phosphogypsum as an ameliorant in acid soil under wetland ecosystem	Anusree T (2018-21-029)
11	PhD (Horticulture) Vegetable science	Genetic Improvement of Horticultural Traits of Bacterial Wilt Resistant/Tolerant tomato (<i>Solanum lycopersicum</i> L.) Varieties	Athulya M P (2018-22-009)

12	PhD (Horticulture) Floriculture and Landscaping	Utilisation of Male Sterility and Polyploidy for Genetic Improvement in <i>Tagetes</i> Spp.	Shilpa P (2018-22-001)
13	PhD (Agriculture) Soil Science & Agricultural Chemistry	Assessment of Ion Interactions in the Acid Saline Soils (Orumundakan) to evolve a Customized Rice Nutrition Strategy	Anjali Bhadra Vijay (2019-21-071)
14	PhD (Agriculture) Agricultural Extension	Socio-Economic and Organizational Dynamics of Traditional Rice Varieties in Kerala	Ahaljith R (2019-21-050_)
15	PhD (Agricultural Engineering) Soil and Water Engineering	Modelling Groundwater Pollution Using visual modflow in Eloor industrial belt	Anjaly C Sunny (2017-28-003)
16	PhD (Horticulture) Post Harvest Technology	Assessment of bioactive compounds and product development from major <i>Garcinia</i> spp. of Kerala	Aparna G S (2017-22-004)
17	PhD (Agriculture) Plant Breeding and Genetics	Marker assisted backcrossing for transferring fusarium wilt (<i>Fusarium oxysporum</i> f. sp. <i>Trachiphilum</i>) resistance into yardlong bean (<i>Vigna unguiculata</i> subsp. <i>sesquipedalis</i> (L.) Verdcourt)	Shahiba A M (2018-21-020)
18	PhD (Agriculture) Agronomy	Potassium utilization efficiency and seasonal response in photosynthesis partitioning of high yielding sweet potato varieties.	Jeena Mary (2019-21-023)
19	PhD. (Agriculture) Agricultural Entomology	Morphological and molecular characterization of eastern honey bee (<i>Apis cerna Facricius</i>) in Kerala.	Chinchu P Babu (2017-21-016)
20	PhD (Agriculture) Agricultural Extension	Climate resilience of peri-urban agriculture in Kerala: a farming system-based assessment	Pooja Krishna J
21	PhD (Agriculture) Plant Breeding and Genetics	Introgression of Ty-2 Gene for Resistance to Tomato Leaf Curl Virus (Tolcv) into Tomato variety <i>Anagha</i> Through marker assisted backcross	Bhaskar Reddy S (2019-21-005)

22	PhD (Horticulture) Plantation Crops and Spices Degree	Identification of genetics stock for drought tolerance and candidate gene analysis in Cocoa (<i>Theobroma cacao L</i>)	Suchithra M (2019-22-011)
23	PhD (Agricultural Engineering) Farm Machinery & Power Engineering	Development and Performance evaluation of a tractor operated tapioca harvester	Nandipati Loka Kalyan Chakravarthi (2019-28-013)
24	PhD (Agriculture) Soil Science & Agricultural Chemistry	Taxonomy and soil carbon sequestration potential of altered and natural wetland ecosystems (aeu 6 and aeu 7) of north Kerala	E Purandhar (2019-21-082)
25	PhD (Agricultural Engineering) Farm Machinery & Power Engineering	Development and ergonomic evaluation of a spading machine as an attachment to power tiller	Chandrashekar (2019-28-012)
26	PhD (Community Science) Food Science and Nutrition	Quality evaluation of hot and cold processed virgin coconut oil and vco capsule	Nivya E M (2019-24-004)
27	PhD. (Agriculture) Agricultural Entomology	Systematics of the subfamily Aphidinae (Hemiptera: Aphididae from south India)	Sharanabasappa M Ganganalli (2018-21-046)
28	PhD (Community Science) Food Science and Nutrition	Medicinal properties and process optimisation for gaba enrichment in rice	Simla Thomas (2018-24-002)
29	PhD. (Agriculture) Agricultural Entomology	Insecticide Tolerance In Stingless Bee, <i>Tetragonula iridipennis</i> Smith (Hymenoptera: Apidae:Meliponini)	Vineetha V (2018-21-038)
30	PhD. (Agriculture) Agricultural Entomology	Multidimensional potentials of black soldier Fly (<i>Hermetia illucens L.</i>) Diptera: Stratiomyidae)	Manu CR (2018-21-036)
31	PhD (Agriculture) Plant Biotechnology	Marker assisted backcross breeding in rice variety <i>Jyothi</i> for drought tolerance	Shankar C (2020-21-039)
32	PhD (Agriculture) Agronomy	Collection and evaluation of Kasthuri manjal (<i>Curcuma aromatica Salisb.</i>)	Divya V U (2019-21-024)
33	PhD (Agriculture) Agronomy	Crop Intensification and nutrient management in coconut based multistoried cropping system in southern laterites (aeu 8)	Namitha V V (2019-21-027)

34	PhD (Agriculture) Agronomy	Identifying resilient rice based cropping systems involving Tuber crops for lowlands	Anju B Raj (2019-21-025)
35	PhD (Agricultural Engineering) Soil & Water Conservation Engineering	Determination of water balance components of a micro watershed for improved water management practices	Bowlekar Adwait Prakash (2019-28-002)
36	PhD. (Agriculture) Agricultural Entomology	Systematics of the Subfamily Aphidinae (Helmiptera : Aphididae) From South India	Sharanabasappa M Ganganalli (2018-21-046)
37	PhD. (Horticulture) Vegetable Science	Standardization of grafting and evaluation for growth, yield, quality and stress tolerance in cucumber (<i>Cucumis sativus L.</i>)	Pooja P Gowda (2018-22-014)
38	PhD. (Horticulture) Vegetable Science	Management of water stress in tomato (<i>Solanum lycopersicum L.</i>) through beneficial root endophytic fungus, <i>Piriformospora indica</i>	Aruna S (2018-22-010)
39	PhD (Agriculture) Plant Breeding and Genetics	Stacking Qtls for drought tolerance into high yielding short duration rice variety Manu ratna	Anand S (2019-21-054)
40	PhD (Agriculture) Agronomy	Nano Fertilizer for enhancing the productivity of sun Flower (<i>Helianthus annus L.</i>)	Vadlamudi Jyothi Swaroopa (2019-21-022)
41	PhD (Agriculture) Agronomy	Management and utilization of chocolate weed (<i>Melochia corchorifolia L.</i>) in sesame (<i>Sesamum indicum L.</i>)	Dhanu Unnikrishnan (2019-21-029)
42	PhD (Agricultural Engineering) Soil & Water Engineering	Swat-Modflow Integrated Modelling Approach For Surface Water Groundwater Interaction-A Case Study	Mamatha Prabhakar (2018-28-003)
43	PhD (Agriculture) Plant Physiology	Zinc homeostasis and carbon sequestration as influenced by Biofertilizers and Co2 enrichment in rice (<i>Oryza sativa L.</i>)	Amrutha E A (2019-21-073)
44	PhD (Agriculture) Plant Breeding and Genetics	Development and breeding lines in rice (<i>Oryza sativa L.</i>) pyramided with r genes for resistance to brown plant hopper (bph) by marker assisted selection	Arun Chacko (2019-21-057)

45	PhD (Co.operation and Banking) Rural Marketing Management	Institutional intervention in marketing of non timber forest products (NTFPs) in Kerala	Vijaykumar N (2019-25-002)
46	PhD (Community Science) Food Science and Nutrition	Development of gluten free casein free Cake mix flour for the children with autism spectrum disorder	Kavitha Raj K N (2018-24-004)
47	PhD (Agriculture) Plant Pathology	Etiology, molecular characterization and management of viral diseases of Dendrobium	Safeer M M (2015-21-012)
48	PhD (Agricultural Engineering) Soil & Water Engineering	Irrigation planning and management of a canal irrigated command using geopatial tools	Priya G Nair (2017-28-002)
49	PhD. (Agriculture) Agricultural Entomology	Microbial formulations for the management of <i>Spodoptera litura F.</i>	Hari Sankar S S (2018-21-047)
50	PhD. (Agriculture) Agricultural Entomology	Bioecology of Major Coccinellid Predators Of Kerala	Anusree S (2017-21-015)
51	PhD. (Horticulture) Fruit Science	Genotype evaluation and production technology development for high density planting system in Papaya (<i>Carica papaya L.</i>)	Amrita Manohar (2019-22-015)
52	PhD (Agriculture) Soil Science & Agricultural Chemistry	Dynamics of iron and aluminium in rice based ecosystem of detrital laterites of aeu 11 and mitigation strategies	Sreelakshmi M M (2019-21-066)
53	PhD. (Horticulture) Vegetable Science	Development of gynoecious genotypes with superior fruit quality in bitter gourd (<i>Momordica charantia L.</i>) through marker assisted breeding	Anju M Sunny (2018-22-007)
54	PhD. (Agriculture) Agricultural Extension	Technology assessment and refinement in coastal homegardens of Kerala: linkages with biodiversity and household livelihoods	Roshni Thampi (2019-21-044)
55	PhD (Horticulture) Plantation Crops and Spices	Spatio-Temporal variations and DNA fingerprinting in elite genotypes of Nutmeg (<i>Myristica fragrans Houtt.</i>)	Priyanka S Chandran (2017-22-007)

56	PhD (Community Science) Food Science and Nutrition	Premorbid nutritional status and development of nutrition software for ischemic stroke patients	Siji S (2017-24-001)
57	PhD (Agriculture) Soil Science & Agricultural Chemistry	Nutrient Release Pattern and Performance of biochar blended N and K fertilizers in laterite and sandy soils	Kavya S R (2019-21-065)

National Service Scheme

Sl. No.	College	No. of Units	No. of Students
1.	College of Agriculture, Vellanikkara	2	220
2.	College of Agriculture Vellayani	2	308
3.	College of Forestry, Vellanikkara	1	110
4.	CCBM, Vellanikkara	1	69
5.	CCCES, Vellanikkara	1	96
6.	IAT Pattambi	1	51
7.	College of Agriculture, Ambalavayal	1	100
8.	KCAET, Tavanur	1	126
9.	CoA, Padannakkad	2	200

National Cadet Corps

Sl. No.	College	No. of Units	No. of Students
1.	College of Agriculture Vellayani	1	50
2.	College of Forestry, Vellanikkara	1	84

Hostel facilities available

Sl. No.	Colleges	Name of the hostel and place	Capacity
1.	College of Agriculture Vellayani	UG Ladies Hostel-Greeshma	590
		UG Mens Hostel	188
		PG Mens Hostel Samrudha	285
		PG Mens Hostel	85
2.	College of Agriculture, Vellanikkara	Harsha Ladies Hostel, Vellanikkara	190
		Haritha Ladies Hostel,	190

		Vellanikkara	
		Hridhya Ladies Hostel, Vellanikkara	40
		Pamba Hostel (Block II) Mens Block, Vellanikkara	172
3.	College of Forestry, Vellanikkara	Periyar, Vellanikkara	50
		Nila, Vellanikkara	20
4.	College of Co-operation, Banking and Management, Vellanikkara	Hrithika, Vellanikkara	168
		Harmya, Vellanikkara	84
		Sagar, Vellanikkara	84
5.	College of Climate Change and Environmental Sciences, Vellanikkara	Pamba Block Girls wing, Vellanikkara	160
6.	IAT Pattambi	Diploma Ladies Hostel, Pattambi	57
7.	KCAET, Tavanur	Men's Hostel - Old Block	74
		Men's Hostel - New Block	71
		Ladies Hostel - Varsha	184
		Ladies Hostel - Greeshma	22
8.	College of Agriculture, Ambalavayal	Kabani Ladies Hostel	44 (Including 4 Guest rooms) +1 Dormitory of 216 beds
		NARP Boys Hostel	60
9.	College of Agriculture, Padannakkad	Thejaswini Ladies Hostel, Padannakkad Campus	132 rooms (355 inmates)
		Chandragiri Mens Hostel, Padannakkad Campus	44 rooms (with double occupancy) (101 inmates)

Students Union Office bearers

1. Patron Dr. B. ASHOK IAS
Hon'ble Vice Chancellor
2. Vice Patron Dr. HASEENA BHASKAR,
Professor
3. Honorary Treasurer Dr. E.G RANJIT KUMAR,
Director of Students' Welfare
4. Staff Advisor Dr. BINU N. KAMALOLBHAVAN,
Asst. Professor
5. President ADARSH ANIL K.,
2021-41-103 CoA, Vellayani
6. Vice President AKSHAY PARAMESWARAN
2020-02-027 KCAEFT, Tavanur

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| 7. | Vice President (Lady) | APARNA C.V.
2020-41-523 CoA, Padannakkad |
| 8. | General Secretary | AMAL S. JOHN
2021-45-028 CCBM, Vellanikkara |
| 9. | Secretary | AKHILA UNNI
2020-41-705 CoA, Ambalavayal |

University Union Councillors

10. Abhijith P.B., 2020-41-101 CoA, Vellayani
11. M.S. Punya Srivendhya, 2021-41-231, CoA, Vellayani
12. Minziya Nazeer, 2022-41-373, CoA, Vellanikkara
13. Shabeerali M., 2021-41-390, CoA, Vellanikkara
14. Basil N.K., 2021-41-328, CoA, Vellanikkara
15. Jithin M.K., 2021-41-561, CoA, Padannakkad
16. Kailasnadh P.B., 2020-41-556, CoA, Padannakkad
17. Midhun M., 2021-41-739, CoA, Ambalavayal
18. Neeraj S. Praveen, 2022-41-746, CoA, Ambalavayal
19. Anugraha V., 2021-45-020, CCBM, Vellanikkara
20. Gayathry Vinod, 2020-45-025, CCBM, Vellanikkara
21. Fathima Hanna M., 2018-20-005, CCCES, Vellanikkara
22. Shabnam M., 2020-48-014, CCCES, Vellanikkara
23. Anandakrishnan L., 2021-48-021, CCCES, Vellanikkara
24. Santhra M.S., 2022-51-042 IAT, Pattambi
25. Sayyid Fahim V.C., 2022-51-036 IAT, Pattambi
26. Gokul Das K., 2022-51-044 IAT, Pattambi
27. Abhirami Krishna, 2021-02-024 KCAEFT, Tavanur
28. Gautham M.R., 2022-02-035, KCAEFT, Tavanur
29. Gayathri S. Kumar, 2020-47-024, CoF, Vellanikkara
30. Aravind D., 2021-47-001, CoF, Vellanikkara
31. Sooraj Dev K., 2022-17-010, CoF, Vellanikkara

5 – RESEARCH

Major events

- World Pulses Day was celebrated at RARS, Pattambi on 08.02.2024. As part of this, farmers’ seminar, exhibition, quiz, poster making and pulse seed art competitions were organized.
- Farmer scientist interface was organized for the central zone. An exhibition showing various technologies in major crops and interactive sessions on production and protection technologies of various crops were arranged. 250 farmers, scientists and department officials from Thrissur, Palakkad, Malappuram and Ernakulam districts attended the programme.
- Farmer – Extension - Scientist Interface programmes were organized on 09.05.2023 and 20.02.2024 at PRS,Panniyur
- Diamond jubilee of BRS, Kannara was celebrated on 28th and 29th December 2023. The programme was inaugurated by Hon’ Vice Chancellor and two days Banana Biodiversity exhibition, seminars and classes were conducted at the station. Previous heads of the station and model banana farmers were honored during the programme.
- The Golden Jubilee Celebration of Cashew Research Station, Madakkathara was inaugurated by Hon'ble Minister of Land Revenue Sri. K.Rajan on 27th October 2023. Two new products, cashew toffee, and cashew energy bar were launched during the programme. A Bee cafeteria, established as a part of AICRP was also inaugurated.
- The Golden Jubilee celebration of ARS Chalakudy and AICRP on Irrigation Water Management was conducted on December 12 and 13, 2023, at ARS Chalakudy. Three publications, namely, a book on “Fertigation”, a “Souvenir of the Golden Jubilee-SUVARNA SMRUTHI DHARA" and a “Compilation of Five Decades of AICRP Research” were released.
- Annual Group Meeting 2023 of the All India Coordinated Research Project on Cashew from 17th to 19th January 2024. Scientists representing states of Maharashtra, Karnataka, Goa, Meghalaya, Gujarat, West Bengal, Andhra Pradesh, Orissa, Chattisgarh, Kerala, Tamil Nadu, and Jharkhand were attended.
- National level training programme on cashew was conducted at Karshaka bhavan, Vellanikkara from 27.01.2024 to 29.01.2024. Sixty-five extension officials/scientist from 10 states participated in the training.
- Orientation training programme of newly recruited field staff of Kerala State Agency for area expansion of Cashew Cultivation (KSACC) was held on 26th & 27th February 2024 at CRS, Madakkathara.
- National Workshop on Farmer Producer Companies in India: Profile and Potential under NAHEP-CAAST on December 1st & 2nd, 2023 at KAU headquarters, Vellanikkara.
- A Quinquennial Review Team (QRT) meeting for the ICAR Network project on Harvesting, Processing, and Value Addition of Natural Resins & Gums was conducted at the College of Forestry on 26th and 27th September, 2023.

- Construction of Bio-control lab under RKVY Project at CRS, Balaramapuram.
- Quality control lab for honey was inaugurated by the Hon'ble State Minister for Agriculture, Shri. P. Prasad on 10.05.2023 at RARS(SZ), Vellayani.
- Department of Molecular Biology and Biotechnology in collaboration with the Department of Agricultural Extension organised an International Biotechnology Conclave entitled “BioZion, The Biotech Capstone-Science-Society Interface” at CoA, Vellayani from 7 to 11 August 2023. Prof. Dr. Habil Thomas Braun, Director, Max Planck Institute of Heart and Lung Research, Germany was the chief guest at RARS(SZ), Vellayani.
- Accreditation of the laboratory under PRRAL, Vellayani was extended to 2026 following reassessment under ISO/IEC 17025: 2017. The scope of the laboratory has been increased up to 105 molecules.
- Dr Naveen P Singh, Member (Official), Commission for Agricultural Costs and Prices (CACP), Ministry of Agriculture and farmers Welfare, Government of India visited RARS Kumarakom on 05.08.2023.
- Dr Miroslava Bavaroova Associate Professor and Head, Department of Economics and Development, Faculty of Tropical Agricultural Sciences, Czech University of Life Sciences, Prague visited RARS Kumarakom on 15-01-2024.
- Conducted “Pooppoli 2024”- International flower Fest from January 1st to 15th, 2024 at RARS, Ambalavayal.
- Farm carnival 2024 was conducted for 10 days from Jan 4th, 2024 at RARS, Pilicode. Demonstration of technologies, bio-parks, sale of seeds, planting materials and value-added products, health corner and hands on trainings were organized.
- World coconut day was celebrated on Sep 2nd, 2023 at RARS, Pilicode.
- Krishi vandi, a mobile input sales counter aimed at providing seeds, planting materials and various bio-inputs directly to the farmers was inaugurated on Feb 14th, 2024.

Patents

Name of Product	Year of granting patent	Name of Scientist
Seed cum fertilizer drill	2023	Dr. Sheeja K Raj, Dr. Shalini Pillai, Dr. Jacob D
Vanilla composition and the process for its preparation	2023	Dr. Mini Abraham, Dr. Sheela K.B, Dr. Rajendrakumar
A rechargeable battery-powered backpack type air assisted electrostatic induction sprayer	2023	Mr. Khatawkar Dipak Suresh, Dr. Dhalin D, Dr. Shaji James P
Banana sucker uprooting machine as an attachment to tractor	2023	Dr. P.R.Jayan, Harikrishnan Mohanachandran ,Aswathi Viswanathan ,Kallivalappil Raman Ajithkumar
A power-operated rotary	2023	Dr. P.R. Jayan ,

coconut husking machine		Cheeramparambil Muhammed, Anu Sarath Chandran , Kotiary Bineesh Lal
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Intellectual Property Right Activities

Facilitated four individual farmers to bag the prestigious Plant Genome Saviour Awards and the Malabar Kaipad Farmers Society to bag Plant Genome Saviour Community Award.

Varieties

Two hybrids and one variety of coconut, one variety of rice and two bitter gourd hybrids are ready to propose for release.

Transfer of Technology (Developed/became ready to transfer)

Skin emollient cream with mosquito repellence property	2023
Jamun nectar	2023
Cashew apple candy	2023
Cashew apple toffee	2023
Cashew apple energy bar	2023
Coconut palm jaggery (Kerachakkara)	2023
Mass production technology of Biofertilizer consortium for nutrient management - PGPR Mix-I	2023
Micro-sol	2023
Composting inoculum (talc-based formulation)	2023
Wheel Hoe Weeder	2023

Technologies transferred during the report year

Sl. No	Name of the Technology	To whom transferred
1	Technology of liquid <i>Pseudomonas fluorescence</i>	Agriculture Research Station, Anakayam
2	Technology of liquid <i>Pseudomonas fluorescence</i> and <i>Trichoderma asperellum</i>	KVK, KAU, Palakkad
3	Technology of liquid <i>Trichoderma asperellum</i>	KVK, Wayanad
4	Technology transfer of Microbial consortium for aerobic composting-Coirpith based formulation	M/s. HYZ Ventures International Private Limited, Thiruvanthapuram
5	Technology Transferred on Recycling of Human hair waste on liquid fertilizer	Ajeesh, J, Plankula Veedu, Konchira, P.O. Thiruvanthapuram

6	Technologies for value addition of cashew apple	Ollur Krishisamrudhi Farmers Producer Company Limited, Thrissur
7	Technologies for value addition of cashew apple	Maharashtra State Agricultural Marketing Board, Pune
8	Technologies for value addition of cashew apple	Son Pandhar Sundhi Agro Producer company, Limited, Maharashtra.
9	Technology of fruit and vegetable Jam Preparation	Smt. Subhashini, P., Flat No G 9, Vijaya Galaxy Apartment, 8th Cross Road, Maruthi Nagar, Kamakshipalaya, Bangalore
10	Technology of spray-dried cashew apple juice powder	Maharashtra State Agricultural Marketing Board, Pune
11	Technology of osmo dehydrated fruits	Maharashtra State Agricultural Marketing Board, Pune

Achievements/Findings

- Development of Pongamia oil soap 3% for the management of the pests of vegetables viz., Chilli, Brinjal, Cowpea and Bhindi. Presented in ZREAC and recommended for farm trial before commercialization
- The two Dwarf mutants of Grand Naine namely Phule pride and Kaveri Vaman (TBM19) was recommended for Kerala.
- The Jackfruit variety Muttom Varikka recommended for cultivation in Kerala and West Bengal after multilocation trials in AICRP (F).
- Soil drenching of *Bacillus pumilus* @ 5ml/l in poly bags with TC plants 5 days before planting + application of *B. pumilus* enriched Farm Yard Manure @5 kg/plant at the time of planting and 2.5kg/plant at 6 MAP is accepted as a national recommendation for biological management of nematode in banana for Kerala.
- A hairy caterpillar (*Eupterote* sp.) was identified and recorded as a new defoliator pest of banana in Kerala.
- Standardized transit temperature for sea shipment of GI tagged Vazhakulam Pineapple
- Standardized pre harvest management practices to minimize chilling injury during sea shipment of GI tagged Vazhakulam Pineapple
- As part of the project Development of small farm agro machinery for homestead farming, the following attachments for power tiller were developed to assist in homestead farming
 - i. Post hole digger attachment
 - ii. Earthing up and bed formation attachment
 - iii. Elevated platform for spraying

- The tractor powered rain gun irrigation system was modified to be attached to any make and model of tractors in the power range of 45 hp and above. The system can be used to pump water for irrigation from different water sources such as field channels, tankers etc.
- A portable recirculating paddy grain dryer suitable for drying paddy seeds was developed in collaboration with NABARD.
- A tractor powered foldable belt conveyor loader was designed and developed with funding from NABARD.
- Magnesium oxide-based nano PCR protocol with increased sensitivity (13-fold) was developed for the early detection of tomato leaf curl virus
- Naturally dyed fabrics, when incorporated with green synthesized silver nanoparticles showed antimicrobial activity. In situ- incorporation of silver nanoparticles in the fabric showed antimicrobial activity up to 20 washing cycles
- Standardized the protocol for in vitro chemotherapy in bitter gourd using Ribavirin and Virus-Ex for developing tolerance towards begomovirusToLCNDV
- Soil application of *Purpureocillium lilacinum*(cfu1X10⁸ /g) @ 2.5 kg along with 2.5tons of dried cow dung/ha along with *Pseudomonas fluorescens* (cfu 1x10⁸ /g) @ 2.5 kg along with 2.5 tons of dried cow dung/ha was found to be effective for the management of root-knot nematode in bitter gourd.
- Soil application of *Trichoderma asperellum* (cfu 1X10⁸ /g) @ 20g/pit at the time of planting was also effective for managing nematodes in banana.
- Soil application of neem cake@ 200g/m² three weeks before sowing/planting +P. lilacinum (cfu1x10⁸ /g) @50g/m² at the time of transplanting was found to be effective for root-knot nematode management in polyhouse cucumber.
- *Pseudomonas fluorescens* @20 g / plant as soil drench was found to be effective managing nematodes in pepper.
- Soil application of talc-based formulation of Trichoderma strain (IIHR-TV5-ITCC-6889) @ 2.5 kg/ha at the time of transplanting along the rows of the crop could control RKN in cabbage and cauliflower.
- Crop weather relationship in Uma & Pournami varieites of rice, genetic coefficient for Uma DSSAT Model for Uma and Pournami varieties were developed.
- Lemon grass oil @2.0 ml/l was found effective against sheath blight disease in rice.
- The entomopathogenic bacterium Bacillus thuringiensis and the fungus Beauveria bassiana could be viable alternatives to insecticides for the management of stem borer and leaf folder in rice respectively.
- The reduviid predator Sycanus collaris, released at the rate of 20 nymphs/10 m² was as effective as the chemical chlorantraniliprole in managing Spodoptera litura in cucumber under polyhouse conditions.
- Application of Beauveria bassiana, NBAIR Bb5a as sucker treatment, soil application and leaf axil/bore hole filling with capsules was found to be effective against banana pseudostem weevil, Odoiporous longicollis
- Two releases of predatory mite Neoseilus indicus at the rate of 30 mites/plant at 10 days interval was found to be as effective as the chemical, Spiromesifen in managing the red spider mite in okra under open field condition.

- SWAK-Annual Water Bird Census in three Ramsar Sites of Kerala revealed the presence of 232 bird species, out of which four species belonged to the 'Vulnerable' category of IUCN.
- Detailed Block level and Municipality/corporation (41 nos.) level flood vulnerability maps for different Agro Ecological Zones of Malappuram, Palakkad, Thrissur and Ernakulam districts have been prepared.

Details of research articles published in major international journals during 2023

Sl. No.	Author	Year	Article title	Journal	Volume	Pages
1.	Aiswarya, T.P., Parayil, C., Bonny, B.P., Nameer, P.O., Prema, A. & Sreya, P.S.	2023	Gendered vulnerabilities in small scale agricultural households of Southern India	<i>International Journal of Disaster Risk Reduction</i>	84	103475
2.	Kavya Jeevan, Bonny, B.P & Gopakumar S.	2023	Climate change perspectives and conservation of sacred groves: Case of Sharnagakavu, Kerala	<i>Indian Journal of Traditional Knowledge</i>	22	433-443
3.	Bonny B.P., Sudheer, K.P., Smitha, S.(Eds.)	2023	Engendering Agricultural Development: Dimensions and Strategies	CRC Press, UK	Ist Edition	1-325
4.	Bonny B.P., Ajith A. Lokesh, S.,	2023	Gender in Agriculture: A Development Perspective. In Engendering Agricultural Development	CRC Press, UK	Ist Edition	1-14
5.	Mohan Kumar, B., Kunhamu TK., Ankita Bhardwaj Santhoshkumar AV.	2024	Subcanopy light availability, crop yields, and managerial implications: a systematic review of the shaded cropping systems in the tropics. DOI:https://doi.org/10.1007/s10457-024-00957-0	Agroforest Systems Submission: Sept 2023	On-line first	1-26
6.	Raj, A.K., Raj, R.M., Kunhamu T.K., Jamaludheen, V Chichaghare A.R.	2023	Management of tree fodder banks for quality forage production and carbon sequestration in humid tropical cropping systems-An overview.	Indian journal of animal sciences	93(1)	10-22.
7.	Lintu P.	2023	Genetic Diversity of	Electronic	14(1)	137-

	Raji Vasudevan-Namboodiri		Brinjal (<i>Solanum Melongena</i> L.) and its wild relatives	Journal of Plant breeding		147
8.	Anjana, H.N., Anith, K.N. Sabu, K.K.	2023	Growth promoting effects of endophytic fungus <i>Piriformospora indica</i> in small cardamom (<i>Elettaria cardamomum</i> Maton).	Symbiosis	91	79-89.
9.	Siva M. Sreeja S. J., Susha S. Thara. Heera, G. & Anith, K. N	2023	Endophytic <i>Bacillus</i> spp. suppress <i>Rhizoctonia solani</i> web blight of bush cowpea	Rhizosphere	25	100682
10.	Divya S., Anusree A.R., Vigi S., Jiji S.G., Das P.A., Dev A.R., Thara S.S., Varghese E.M., Gopinath P.P. & Anith, K.N.	2023	Silver nanoparticles green synthesized with leaf extract of disease-resistant amaranthus genotypes effectively suppress leaf blight (<i>Rhizoctonia solani</i> Kühn) disease in a susceptible red amaranthus cultivar	3 Biotech	13	196
11.	Nysanth N.S., Rajan S.A., Sivapriya S.L., Anith K. N.	2023	Pink Pigmented Facultative Methylo-trophs (PPFMs): Potential Bioinoculants for Sustainable Crop Production.	Journal of Pure and Applied Microbiology	17	660-681
12.	Arya M., Radhika N.S., Joy M, Heera G. & Beena R.	2023	Distribution of Stunted Disease of Black Pepper in Kerala, Varietal Response and Sero-molecular Characterization of PYMoV.	Journal of Tropical Agriculture	61(1)	111-116.
13.	Koya Madhuri Mani; Joy Michel Johnson; Anith K Narayanan; P. Shalini Pillai; Jacob John; Radha Beena.	2023	Endophytic root colonization by <i>Piriformospora indica</i> mitigates drought stress in rice by modifying the root architecture.	Rhizosphere.	28	1-5.
14.	Amrutha V, Beena R., Shanija S	2023	Physiological and biochemical traits contributing for high temperature tolerance in tomato (<i>Solanum lycopersicum</i> L.).	Agricultural Research Journal.	60(4)	516-526
15.	Rohitha, K., Beena, R., Jayalekshmy, V.,	2023	Changes in water stress indicators and antioxidant systems in	Vegetos,		

	Nivedhitha M.S., Vijayakumar A., & Gopinath, P.P.		chilli by chemical seed priming under water stress condition.			
16.	Anilkumar, C, Sah, R. P., Beena, R., Azharudheen, M., Kumar, A., Behera, S., Sunitha, N., Pradhan,S., Reshmi Raj K. C, P., Marndi, B., & Singh A.	2023	Conventional and contemporary approaches for drought tolerance rice breeding: Progress and prospects.	Plant Breeding	142	418– 438.
17.	Jha UC, Nayyar H, Chattopadhyay A, Beena R, Lone AA, Naik YD, Thudi M, Prasad PVV, Gupta S, Dixit GP and Siddique KHM	2023	Major viral diseases in grain legumes: designing disease resistant legumes from plant breeding and OMICS integration.	Front. Plant Sci.	14	118350 5
18.	Stephen K., Aparna K., Beena, R., Sah, R.P., Jha, U.C. and Sasmita, B.	2023	Identification of simple sequence repeat markers linked to heat tolerance in rice using bulked segregant analysis in F ₂ population of NERICA-L 44 × Uma.	Front. Plant Sci.	14	111383 8
19.	Radha Beena., Sunitha N.C., Sah, R.P.,Azarudeen, T. P. M., Krishna, G.K., Umesh, D.K., Thomas, S., Anilkumar, C., Upadhyay, S., Kumar, A., Manikanta, Ch L. N., Behera, S., Marnd,i B.C. and Siddique, K.H.M	2023	Physiological and molecular implications of multiple abiotic stresses on yield and quality of rice.	Front. Plant Sci	13	:99651 4
20.	Uday Chand Jha, Harsh Nayyar, Swarup K Parida, R Beena, Jiayin Pang and Kadambot H.M. Siddique.	2023	Breeding and genomics approaches for improving phosphorus- use efficiency in grain legumes,	Environmental and Experimental Botany.	205	105120
21.	Akhil Sree Kumar, Rajani Kurup Sukumaryamma Remadevi, Anil John Johnson, Vinayak Venukumar,	2023	Elettaria cardamomum leaves, an underutilized resource: chemical profile of its essential oil and insecticidal activity.	Journal of essential oil research	https:// doi.org /10.108 0/1041 2905.2 023.21 97437	

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22.	P Neethu, Thania Sara Varghese1 N Anitha, Thomas George1, T Santhosh kumar.	2023	Studies on Resistance Development and Detoxification Enzyme of Rice Weevil, Sitophilus oryzae to Insecticides.	Pesticide Research Journal	35(2)	207- 213
23.	Anish M.C., Subba Rao A.N., Nair S., Nagarajappa G.B. & Pandey K.K.,	2023	Luminescent transparent wood from a woody cellulosic template treated with an optical brightener	Journal of Applied Polymer Science	140	e54028
24.	Anish M.C., Pandey K.K. & Kumar R	2023	Transparent wood composite prepared from two commercially important tropical timber species	Scientific Reports	13	1-10
25.	Anish M.C., Pandey K.K. and Kumar R.	2023	Preparation and characterization of unsaturated polyester infused transparent wood composites	European Journal of Wood and Wood Products	82	503– 513
26.	Manjusha, A.V.M., Laya P.K., Premachandran A. & Veena M.	2023	First report of wilt disease in cashew (Anacardium occidental e L.) caused by Fusarium decemcellulare in Kerala, India	CABI Agric Biosci	4	7
27.	NU Visakh, B Pathrose M Chellappan, MT Ranjith, PV Sindhu, D Mathew	2023	Extraction and chemical characterisation of agro-waste from turmeric leaves as a source of bioactive essential oils with insecticidal and antioxidant activities	<i>Waste Management</i>	169 10.1016 /j.wasm an.2023 .06.030	
28.	Thomas S, Aneena ER, Pathrose B, Panjikaran ST, Sharon CL, Prameela P, Ajisha KH, Athira KA	2023	Augmentation of gamma amino butyric acid (GABA), antioxidant potential and nutrient qualities in germinated brown rice	<i>Food and Humanity</i>	1 10.1016 /j.foohu m.2023. 06.010	
29.	Kuttithodi AM, Narayanankutty A, Visakh NU, Job JT,	2023	Chemical Composition of the Cinnamomum malabatum Leaf	<i>Antibiotics</i>	10.3390 /antibiot ics1205	

	Pathrose B, Olatunji OJ, Alfarhan A and Ramesh V		Essential Oil and Analysis of Its Antioxidant, Enzyme Inhibitory and Antibacterial Activities		0940	
30.	Mattupurath S, Bhaskar H, Pathrose B and Athikurissi S	2023	Susceptibility to acaricides and detoxifying enzyme activity in <i>Tetranychus gloveri</i> Banks (Acari: Tetranychidae) populations from India	<i>International Journal of Acarology</i>	10.1080/01647954.2023.2195865	
31.	Ibrahim SMS, Nilamuddeen M, Pathrose B, Karthikeyan K	2023	DNA barcoding of invasive black thrips <i>Thrips parvispinus</i> (Karni) Thysanoptera: Terebrantia: Thripidae from Muthalamada, the mango city of Kerala, India	<i>Journal of Entomological Research</i>	47(3)	467-470
32.	Visakh NU, Pathrose B, Narayanankutty A	2023	Characterization of secondary metabolites from the leaves of curry leaf (<i>Murraya koenigii</i> L.) essential oils with insecticidal activities against stored product insects	<i>Biocatalysis and Agricultural Biotechnology</i>	54	102973
33.	Raju S., Pathrose, B., Chellappan, M., Bhaskar, H and Sudheer, K.P.	2023	Susceptibility of life stages of <i>Tribolium castaneum</i> (herbst) to microwave radiation	<i>Indian Journal of Entomology</i>	<i>Indian Journal of Entomology</i>	194-197
34.	Vineetha V, Chellappan M, Pathrose B	2023	Trends in insecticide usage among bitter gourd farmers of central Kerala: An investigative study	<i>Journal of Tropical Agriculture</i>	61(2)	181-188
35.	Harshaprada K, Francies RM, Bastian D, Pathrose B, Thomas A	2023	Seed water status and insect infestation during storage in rice	<i>Journal of Tropical Agriculture</i>	61(1)	8-13
36.	Vineetha V, Chellappan M, Pathrose B	2023	A rapid and easy bioassay method for stingless bees <i>Tetragonula travancorica</i> Shanas and Faseeh	<i>Indian Journal of Entomology</i>	85(4)	980-983
37.	Athira, A., Nisha M.S. & Varghese T.S.	2023	Bioefficacy of <i>Andrographis paniculata</i> (Burm. F.) Nees Against <i>Meloidogyne incognita</i> in Okra, <i>Abelmoschus</i>	<i>Indian Journal of Nematology</i>	53 (2)	171-179

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38.	Gayathri,P.S. & Nisha M.S.	2023	Efficacy of entomopathogenic nematodes against <i>Diaphania indica</i> (Saunders) (Lepidoptera: Crambidae) in bitter gourd.	Indian Journal of Nematology	53(1)	37-44
39.	Krishna R. & Nisha M.S.	2023	Biomangement of root-knot nematode, <i>Meloidogyne incognita</i> and wilt fungus, <i>Fusarium oxysporum</i> , disease complex in vegetable cowpea.	Indian Journal of Nematology	53(1)	8-14
40.	M.Suchithra, B. Suma, J.S Minimol, Deepu Mathew and A.V Santhosh Kumar	2023	Physiological response of cocoa (<i>Theobroma cocoa</i> L) genotypes to drought	Journal of Plantation Crops	50	136-144
41.	Aswathi S. Vasu, Sreelatha U, Rose Mary Francies, Ancy Joseph, Mini Sankar and Minimol J.S.	2023	Reproductive biology of Kannanthali [<i>Exacum bicolor</i> (Roxb.)];An endangered, potential native ornamental of the lateritic hillocks of Kerala	Journal of Tropical Agriculture	61	237-247
42.	Shravani J., Sreelatha U., Minimol J.S., Shajma Naseefa Basheer and Mini Sankar	2023	Performance of <i>Chrysanthemum grandiflora</i> Tzvelve) genotypes in the plains of Kerala	Journal of Tropical Agriculture	61	143-152
43.	Padmavathi C, Santosha R, Naganna, N,Varma N.R.G, Karthikeyan.K,Sharma, S, Kumar,R.M & Katti, G	2023	Insect Pest Incidence with the System of Rice Intensification: Results of a Multi-Location Study and a Meta-Analysis	Agronomy	13	1100
44.	Joshi, S., Nafeesa, M. and Viyolla, P. M	2023	A new species of <i>Aulacaspis</i> Cockerell, 1893 (Hemiptera: Coccoomorpha: Diaspididae) infesting cardamom from India	Zootaxa	5325 (2)	239-250
45.	Jeena Mary, P. Prameela, S. Sunitha, Syama S. Menon	2023	Seasonal Changes in Photosynthate Partitioning in High Yielding Sweet Potato	Indian Journal of Agricultural Research	57 (3)	362-368

			Varieties under Varied K Nutrition Levels			
46.	Anu Thomas & K M Sreekumar	2023	Efficacy of pongamia oil soap against Earias vitella and Helicoverpa armigera in okra	Indian Journal of Entomology	Ref. No. e23304 DoI. No.: 10.55446/IJE.2023.	1304
47.	K M Sreekumar, K D Prathapan and S S Anooj	2023	Granulate ambrosia beetle Xylosandrus crassiusculus (motschulsky) (Coleoptera:Curculionidae: Colytinae: xyleborini) bores into the fuel pipe of petrol vehicles	Indian Journal of Entomology	Online published Ref. No. e23621 DoI. No.: 10.55446/IJE.2023.	1621
48.	SubhashiniShinde, PS Abida, ManjeshSaakre, HaseenaBhaskar, R Beena, R Preetha	2023	Identification and comparative analysis of differential proteins expression in rice under biotic stress by protein sequencing	Cereal Research Communications		1-12
49.	Abida PS, Soorya KU, Akhila J, Shankar C, Krishna Kumar G, Smita Nair and Preetha R	2023	An efficient and rapid method of in-vitro propagation of Bougainvillea through nodal segments and clonal fidelity analysis using ISSRs	The Pharma Innovation (not Scopus index)	12(9)	620-624
50.	SHIJO A ROBERT, Devaki Girija, Abida P S, Rose Mary Francis, Kiran Ayyanperumal Geetha,	2023	Endophytic bacterial diversity in the roots of medicinal rice in Kerala	Understanding the Microbiome Interactions in Agriculture and the Environment,	22(130)	p. 185-213
51.	Amrita Manohar, Anu G Krishnan, and Jyothi Bhaskar	2023	Field evaluation of papaya genotypes for tolerance to papaya ringspot virus under humid tropics of Kerala	Biological Forum	15 (4)	320-323
52.	Aswini, A & Jyothi Bhaskar	2023	Morphological and biochemical characterization of mango (Mangifera indica L.) genotypes under high density planting	Pharma Innovation Journal	12 (2)	1385-1395
53.	Lalit Dhruve, Ajith Kumar, K., Jyothi	2023	Breeding and identification of	Journal of Tropical	61 (1)	36- 49

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54.	Amrita Manohar, Jyothi Bhaskar and Suma, A	2023	Shoot tip pruning and paclobutrazol soil drench on the yield of mango hybrid Ratna under HDP system	Journal of Tropical Agriculture	61 (1)	140-142
55.	Keerthana Sethunath, Jyothi Bhaskar and Vikram, H. C.	2023	Phenology of dragon fruit crop grown in Kerala.	Journal of Tropical Agriculture	61 (1)	153-156
56.	Divya Vijayan V, Madane, Dnyaneshwar & Dipanwita Halder	2023	Monsoon paddy crop discrimination using machine learning algorithms to multi-temporal Sentinel-1A (C-band) data in Alathur block of Palakkad district of Kerala state, India.	Paddy and Water Environment.	21	365-375
57.	Talla Sushmitha, Sajeena A., Deepu Mathew, Joy M., Radhakrishnan N. V., Jacob John and Anuradha T.	2023	First report of bacterial wilt of yardlong bean (<i>Vigna unguiculata</i> subsp. <i>sesquipedalis</i> (L.) Verdc.) caused by <i>Kosakonia oryzae</i> in India	Journal of Plant Pathology	105	1727-1728
58.	Dhanya M. K., Murugan M., Sajeena A., Ashokkumr K., Ayisha R., Deepu Mathew, Aiswarya M. and Amita Paul	2023	First report of capsule rot of small cardamom (<i>Elettaria cardamomum</i> (L.) Maton) by <i>Fusarium oxysporum</i> in India	Journal of Plant Pathology	105	1747-1748
59.	Mughair Abdul Aziz, Miloofer Sabeem, M Sangeeta Kutty, Shafeeq Rahman, Maitha Khalfan Alneyadi, Alia Binghushoom Alkaabi, Eiman Saeed Almeqbali, Faical Brini, Ranjit Vijayan, Khaled Masmoudi	2023	Enzyme stabilization and thermotolerance function of the intrinsically disordered LEA2 proteins from date palm	Scientific reports	13	11878
60.	Anjitha A.R., Deepthy Antony P., Jiji Joseph, Vimi Louis and M. Sangeeta Kutty	2023	Evaluation of Tomato Genotypes for Tomato Leaf Curl Virus (ToLCV) Resistance	Journal of Tropical Agriculture	61	68-77

61.	Manju A, Sindhumole P, Jiji Joseph, Pradheep K, Sangeeta Kutty M and Seeja Thomachan Panjikkaran	2023	Reproductive biology of two <i>Moringa oleifera</i> L. varieties PKM1 and Jaffna under Kerala condition	The Pharma Innovation Journal	12	2408-2413
62.	Unnikrishnan, BV Pradeepkumar, T and Sidharthan, PP and Mohan M	2023	Microbe mediated abiotic stress tolerance in cucurbitaceous vegetables	Biologia	78	2863–2873
63.	Anju, A.B., Natarajan, C., Preetha, R., Rajan, S.A., Soumya, V.I. and Anith, K, N.	2023	Bacterization with endospore-forming <i>Bacillus</i> spp. promotes plant growth and suppresses foot rot disease in Black Pepper (<i>Piper nigrum</i> L.) in the nursery	Journal of Pure and Applied Microbiology	17	768-779
64.	Preethy TT, Murugan M, Mathews N, Kuriakose A	2023	Insights into the genetic diversity of Indian cardamom [<i>Elettaria cardamomum</i> (L.) Maton]: for a future research perspective	Plant Genetic Resources: Characterization and Utilization	21	12-18
65.	Arya, K.S. Sangeeta Kutty, M. and Pradeepkumar, T.	2023	Microgreens of tropical edible- seed species, an economical source of phytonutrients- insights into nutrient content, growth environment and shelf life	Future Foods	8	100262
66.	Athulya M.P., Anitha, P., Pradeepkumar T., Kutty M.S., Kurian P.S. and Sindhumole P.	2023	Genetic diversity and screening for bacterial wilt in tomato (<i>Lycopersicon esculentum</i>).	Journal of Horticultural Sciences.	18(1)	40-45
67.	Kousthubha V P, Anitha P, Pradeepkumar T, Flemine Xavier and Beena V I	2023	Genetic diversity analysis in sponge gourd (<i>Luffa aegyptiaca</i>)	Indian Journal of Agricultural Sciences	93 (4)	447–451
68.	Shivaji Ajinath Lavale, Deepu Mathew , T. Pradeepkumar, , K. Joseph John, Jiji Joseph	2023	Mapping the QTL and tagging yield traits in bitter gourd (<i>Momordica charantia</i> L.) using microsatellite markers	Biocatalysis and Agricultural Biotechnology	47	102553
69.	M Murugan.,K. Anil., A Anandhi,, A. Pooja , K. Ashokkumar, M. K. Dhanya , A.	2023	Cardamom agro-environmental interrelationships analysis in Indian cardamom hills	Frontiers in Climate	25 (5)	doi:10.3389/fcclim.2023.1107804

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70.	Chinnu Raju, Ajith K., Ajithkumar B., Anitha S., Divya Vijayan V	2023	Estimating irrigation water requirement in rice by integration of satellite data and agrometeorological indices in Palakkad, Kerala	Journal of Agrometeorology	25 (2)	293-299
71.	Shalini Pillai P. Radhakrishnan N. V.	2023	Crop diversification for enhanced productivity in the Southern Laterites of Kerala.	Indian Journal of Agricultural Research	DOI:10.18805/IJARE.A-6067	
72.	Ashish Koshy George Bindhu, J. S., Shalini Pillai P. Ameena, M. Aparna, B	2023	Productivity and profitability of tomato under organic nutrition in wicking bed system	Agricultural Science Digest	DOI: 10.18805/Agriculture D-5839	
73.	Greeshma, U. Bindhu, J. S. Shalini Pillai, P. Jacob, D. Sarada, S.	2023	Influence of wicking bed system characteristics on tomato (<i>Solanum lycopersicum</i> L.) growth and yield.	Journal of Applied Horticulture	25	184-187
74.	Hasna Ameena P.O., Anu Varughese, Gilsha Bai E. B., and Rema K P. DOI: http://doi.org/10.30638/eemj.2023.031 .	2023	Assessment of saline water intrusion in a coastal region of Kerala, India.	<i>Environ. Engineering and Management J.</i>	22(3)	607-618.
75.	Bhavya, M.S.P., Manju, R.V., Viji, M.M., Roy, S., Anith, K.N. and Beena, R	2023	Impact of biofertilisers on iron homeostasis and grain quality in the rice variety Uma under elevated CO ₂ .	<i>Front. Plant Sci.</i>	14:	1144905
76.	Aswathi S. Vasu., Sreelatha U., Rose Mary Francies., Joseph, A., Mini Sankar and Minimol J. S	2023.	Reproductive biology of <i>Exacum bicolor</i> (Roxb.); an endangered, beautiful gentian plant of the lateritic hillocks of Southern India.	<i>J. Trop. Agric.</i>	61(2):	237-247
77.	Thara, S.S., Soni, K.B., and Sindura, K.P. 2023.	2023	Expression profiling of laccase and β -glucan synthase genes in	Molecular Biology Reports	50(9)	7205-7213

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78.	Lakshmi, G., Beena, R., Soni, K.B., Viji, M.M., and Jha, U.C.	2023	Exogenously applied plant growth regulator protects rice from heat-induced damage by modulating plant defense mechanism.	J. Crop Science and Biotechnology	26	63-75
79.	Elizabeth Jose, KB, S., Alex, S., Pillai P., S., V.G., J., Stephen, R., A.G., K., & Dongare, M. D.	2023	Productivity and nitrogen use efficiency of rice under conventional and organic nutrition.	Environment Conservation Journal	24(4),	231–240
80.	Pavithra K.J., Mini C.	2023	Development and Quality Evaluation of Dragon Fruit (Hylocereus undatus) based Blended RTS Beverages .	Asian Journal of Dairy and Food Research.*	42(1)	110-116.
81.	Gana, K.R. and Mini, C.	2023	Shelf life extension of minimally processed jackfruit (Artocarpus heterophyllus Lam.) portion.	Asian Journal of Dairy and Food Research.*	Doi:10.18805/ajdfr.DR-2017.	
82.	Aparna G.S. and Lekshmi G.P.R.	2023	Effect of acidification and types of solvent on anthocyanin yield, total phenols, flavonoids, antioxidant activity, and colour values of extracts from Mangosteen Pericarp (Garcinia Mangostana L.).	Asian J. Dairy and Food Res.* (Scopus indexed)	42(2)	226-233
83.	Gadha V.P., Thulasi V., Jayasree Sankar S., Moossa P.P. and Chithra Parayil	2023	Post Flood Changes in Soil Quality of AEU 13 in Palakkad District of Kerala	Journal of Tropical Agriculture	61(1)	20-28
84.	Induja, M Thulasi, V Santhosh, P.P. Moossa, P.P.	2023	Evaluation of Fertilizer-manure Blocks as a Slow Release Fertilizer Formulation for Okra [Abelmoschus esculentus (L.) Moench].	Agricultural Science Digest,	D-5668 https://arccjournals.com/journal/agricultural-science-digest/	1-5

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85.	Asha S, Mohammad S, Makeshkumar T	2023	High throughput sRNA sequencing revealed gene regulatory role mediated by pathogen-derived small RNAs during Sri Lankan Cassava Mosaic Virus infection in Cassava	3 Biotech	13(3)	95
86.	Santhosh, S., Anupama, T.V., Sreelatha, U., Sankar, M., Parvathi, M.S.	2023	Impact of plant growth regulators and pruning on flowering in Jasmine (Jasminum sambac L.)	Journal of Tropical Agriculture	61(1)	117–122
87.	Tomson K. S., Anil Kuruvila, Ajithkumar B.	2023	Climate risk in Wayanad district: An empirical analysis	Journal of Tropical Agriculture	61 (1)	123-126
88.	Vishwakarma, C., Krishna, G.K., Kapoor, R.T., ...Yadava, P., Chinnusamy, V.	2023	Bioengineering of Canopy Photosynthesis in Rice for Securing Global Food Security: A Critical Review	Agronomy	13(2)	489
89.	Vineeth, T.V., Krishna, G.K., Pandasha, P.H., ... Krishnamurthy,S.L. , Sharma, P.C.	2023	Photosynthetic machinery under salinity stress: Trepidations and adaptive mechanisms	Photosynthetic a	61(1)	73–93
90.	Kumari, A., Singh, S.K., Mikhina, M.S., Patni, B., Krishna, G.K.	2023	Melatonin as a Key Regulator of Plant Growth and Development	Advancement of Melatonin Research in Plants: Multi-Faceted Role in Regulating Development and Stress Protection	ISBN 978-100382208-0, 978-103238155-8	24–39
91.	Dongare, M.D., Alex, S., K B. Soni, K. P. Sindhura, Nair, D. S., Stephen, R., Jose, E.	2023	Cross-species transferability of IRAP retrotransposon markers and polymorphism in black pepper (Piper nigrum L.)	Genet Resourc Crop Evol	70	2593-2605
92.	Krishnasree R K, S, Sheeja K Raj, Shalini Pillai P, K Prathapan Jacob D and R Beena	2023	Foliar nutrition with water soluble macro and micro nutrient fertilizers for yield maximization in bush vegetable cowpea	Legume Research- An International Journal	45 (10)	1266-1272
93.	Ramya Chandra C, Prathapan K and Sheeja K Raj	2023	Performance evaluation of rice varieties and their response to Zn nutrition in uplands	Journal of Tropical Agriculture	61 (1)	1-7
94.	J K Sinchana and	2023	Weed management in	Legume	46 (15)	533-

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95.	Dr.Sainamole Kurian	2023	The effective antagonistic potential of phylloplane microbes against <i>Alternaria solani</i> causing early blight disease in tomato plant	<i>Indian Phytopathology</i>	76(3)	825-834.
96.	Dr. Ayisha R	2023	Nano-PCR for the early detection of tomato leaf curl virus	<i>3 Biotech</i>	14(1)	5
97.	Dr. Anita Cherian, Dr. Vimi Louis	2024	Integrated management of <i>Fusarium</i> wilt disease of banana in Kerala, India.	<i>Vegetos</i>	37(1)	117-124
98.	Dr. Ayisha R	2024	Effect of arbuscular mycorrhizal fungi and pink pigmented facultative methylotrophs for mitigating water stress in black pepper	Proceedings of National Academy of Science India- Section B - Biological Sciences	https://doi.org/10.1007/s40011-024-01559-7	1-9
99.	Mani, K.M., Ameena, M., Johnson, J.M., Anith, K.N., Pillai, P.S., John, J. and Beena, R.	2023	Endophytic fungus <i>Piriformospora indica</i> mitigates moisture stress in rice by modifying root growth.	<i>Rhizosphere</i>	28	100799
100.	Mani,K.M., Ameena M., Joy Michel Johnson, Shalini Pillai,P., Jacob John and Beena R.	2023	Root endophyte <i>Piriformospora indica</i> significantly affects mechanisms involved in mitigating drought stress in rice (<i>Oryza sativa</i>).	<i>Indian Journal of Agronomy.</i>	68(3):	324-327
101.	Chinchu P. B. and Amritha V. S.	2023	New haplotypes of honey bees (<i>Apis</i> spp.) in Kerala India - identification by mitochondrial gene and its genetic similarity to South East Asian haplotypes	<i>Apidologie</i>	54:27	1-16 https://doi.org/10.1007/s13592-023-01000-4
102.	Edakkalathur, A. I.,	2023.	Spatial and temporal	<i>J. Tropical</i>	61(2):	227-

	Presannakumari, K.T., Minimol, J.S., Latha, M., and Pradeepkumar, T.		gene expression pattern and taxonomic alignment at vegetative stage in cultivated <i>Capsicum</i> spp	Agric.,		236.
103.	Nasreena, C., Alex, S., Soni, K.B., Dinkar, D.M., Kiran, A.G., and Manju, R. V.	2023	Selection of stable housekeeping genes for gene expression studies in different varieties of black pepper (<i>Piper nigrum</i> L.)	Plant Science Today	10	26-36
104.	Thasni, A., Sarada, S. and Alex, S.	2023	In vitro bud proliferation response in ivy gourd (<i>Coccinia grandis</i> (L.) Voigt.) cv. Sulabha nodal explants with cytokinin levels	Journal of Tropical Agriculture	60(2)	222-226.
105.	Krishnasree, V., Gopinath, P. P., Mohan, G., Binitha, N., Jasna, V., Seenath, P., Shamna, N., Sajayan, A., & Sujatha, R. (2023e).	2023	Optimization of Extruded Snack Enriched with Coconut Inflorescence Sap Honey: A Promising Supplementary Food among Tribals.	Asian Journal of Dairy and Food Research	Volume 42 Issue 4:	495-503
106.	Mounika Sai, K. Smita Nair*, Megha Mohan, Kiran A. G.	2023	Expression profiling of cell cycle regulatory genes E2F and CDKA during early stages of zygotic embryo culture in coconut (<i>Cocos nucifera</i> L.).	Plant Cell, Tissue and Organ Culture	155	709–717
107.	Midhuna Madhu Kovileri, Smita Nair*, & Loius, V.	2023	One-step Reverse Transcription-LoopMediated Isothermal Amplification (RT-LAMP) for closed-tube colorimetric detection of banana bract mosaic virus in Banana (<i>Musa</i> spp.).	3 Biotech	13	Article number 131
108.	Ramamoorthy, M. V., Prashant, B. D., Mathew, D., Devassy, B. T., Raman, S. M., Muhammed, P. C., & Smita Nair	2023	Antiproliferative potential of bioactive molecule from <i>Murraya koenigii</i> L. Spreng against breast cancer: In vitro and in vivo studies and gene expression analyses.	Indian Journal of Experimental Biology	61	819-832
109.	Mayank Pratap Singh Bangari, Hari Singh Meena,	2023	Overexpression of mulberry gene MaUSP1-like in	Journal of Plant Biochemistry	32	407–411 (IF 1.6)

	KH Dhanyalakshmi, Shivasharanappa S Patil, HV Chaitra, Tinu Thomas, James Jacob, Karaba N Nataraja		tobacco reduces photosynthetic limitations and enhances biomass	and Biotechnology		
110.	Surendra Gopal, K., Reshma, F. and Sreelatha A. K. 2023	2023	Impact of soil temperature, pH and carbon dioxide on the population and efficiency of fluorescent pseudomonad in the rhizosphere soil of Pokkali rice.	Environ. Conserv. J.	24 (1)	163- 170
111.	Arshad, A., Jamaludheen, V., Kunhamu, T. K., Beena, V. I. and Surendra Gopal, K.	2023	Comparison of soil chemical properties in five different land use systems after flooding: A case study from India	Eurasian Soil Sci	56 (5)	1064- 2293
112.	Haseena A., and Gopal Surendra K	2023	Ignatzschineria cameli Strain KAUPDF7-A First Report on Plant Growth Promoting Rhizobacteria (PGPR) from the Post-flood Affected Soils of Kerala.	Indian J Agric Research	57(4)	421- 425
113.	Haseena, A., Surendra Gopal, K., and Sandeep, S....125. (8).878- 885	2023	Impact of floods and landslides on beneficial soil microbes and nutrients in selected high ranges of Kerala, India	Current Science	125. (8)	878- 885
114.	Vijayasree, V., Bai, H., and Madappallikunnil Sarojinamma, S.	2023	Dissipation kinetics and decontamination of novaluron residues in cowpea, eggplant, and okra	Toxicological & Environmental Chemistry	105(8- 10)	302- 310
115.	Pradeepkumar, G., Vijayasree, V., and Chandran, K. S.	2023	Growth dilution and its effect on pesticide dynamics in Okra	Entomon	48(3)	357- 364
116.	Prakash, K.M., Joseph, J and Santhoshkumar, A.V.	2023	Biochemical responses of black pepper accessions to drought stress	Medicinal plants	16(1)	92-98
117.	Shanker, C., Abida, P.S., Joseph, J., Francies, R. M., Mathew, D., and Beena, R.	2023	Evaluation for parental polymorphism and identification of microsatellites linked to drought tolerance in rice (<i>Oryza sativa</i> L).	International J. of plant and Soil science	35(22)	275- 284

118.	Sunil, R., Joseph J., Santhoshkumar, A.V. and Biju, S	2023	Genetic variability Studies in F2 and F3 Segregating Generations for Biometrical Traits in Cowpea (<i>Vigna unguiculata</i> L. Walp)	Biological Forum -An International Journal	15(10)	234- 238
119.	Ashish V., Bhaskar, H., Sreelatha U., and Deepthy, K. B	2023	Acaricidal effects of <i>Tagetes minuta</i> L. (Asteraceae) against <i>Tetranychus truncatus</i> Ehara (Prostigmata: Tetranychidae)	International Journal of Acarology	49	325– 333
120.	Menon, A. G., Bhaskar, H., Subramanian,S. M., & Gopal K.S	2023	Acaricidal effects of two native isolates of entomo-pathogenic bacteria <i>Photobacterium luminescens</i> (Thomas & Poinar) against spider mite, <i>Tetranychus truncatus</i> Ehara (Acari: Tetranychidae)	International Journal of Acarology	49	395– 399
121.	V V Ashish, Bhaskar H. U Sreelatha, K B Deepthy	2023	Bioefficacy of <i>Tagetes minuta</i> L. against <i>Aphis craccivora</i> Koch (Hemiptera, Aphididae)	Entomon	48	537- 544
122.	T Nimisha, K B Deepthy, Bhaskar H., M Chellappan	2023	Biochemical Basis of Abiotic Stress Tolerance in Native Isolates of <i>Beauveria bassiana</i> (Balsamo) Vuillemin from Kerala	Indian Journal of Entomology	DoI. No.: 10.554 46/IJE. 2023.1 288	

Research collaborations

KAU has entered into research collaborations with the following organizations.

- Mondelez India Pvt. Ltd for the continuation of the Mondelez- KAU Co-operative Cocoa Research Project from 1-03-2024 to 28-02-2027
- Kerala State Council for Science Technology and Environment for the execution of the project entitled “Development of hybrid Bio nano composites using cellulose Derivative/ Hydroxyapatite Matrix for Controlled Release of NPK Fertilizers” along with Govt engineering College, Thrissur.
- National Center for Biological Science, Bangalore for undertaking collaborative project work to understand the ecology and biological activities of bat communities.

- TNAU, Coimbatore and ICSSR for “A Multi-dimensional study on the impact of Pradhan Manthri Kisan Samman Nidhi (PM-KISAN) on the livelihood of farmers of Southern states of India
- National Research Centre for Banana, Trichy for banana breeding programme.
- Amala Medical College, Thrissur for research on anticancer properties of plant derived bio actives.
- MG University and Indian Agricultural Research Institution for the project – Rice microbiome modulation for improved plant functional traits, nitrogen nutrient acquisition, and stress tolerance under RUSA scheme of Govt of India
- Indian Institute of Space Science and Technology for project-HOPE–WIN: Human-in loop- in Orbit Plant Experiment
- CSIR Fourth Paradigm Institute for a project on "Region Specific Smart Agriculture" in conducting field observations, drone survey and experiments in coordination with local farmers

AICRPs and AINPS

Sl. No.	Project	Station
1.	AICRP on Rice	Regional Agricultural Research Station, Pattambi & MSSRRS, Moncompu
2.	AICRP on Seed (Crops)	Regional Agricultural Research Station, Pattambi
3.	AICRP on LTFE	
4.	AINP on Arid Legumes	
5.	AICRP (Fruits)	Banana Research Station, Kannara
6.	AICRP on Cashew	Cashew Research station, Madakkathara
7.	AICRP on Water Management	ARS,Chalakydy
8.	AINP on Agricultural Acarology (AINPAA)	College of Agriculture, Vellanikkara
9.	AICRP on Spices-New project mode centre at Thrissur	
10.	AICRP on Soil Test Crop Response (STCR)	
11.	AINP on Soil Biodiversity – Biofertilizers	
12.	AICRP on Medicinal Aromatic Plants & Betelvine	College of Agriculture, Vellanikkara
13.	AICRP On Biological Control of Crop Pests	
14.	AICRP on Weed Control	
15.	AICRP on Agro meteorology	
16.	AIC Vegetable Improvement Project	
17.	AIC Floriculture Improvement Project	
18.	AINP on Vertebrate Pest Management	
19.	AICRP on palms – Voluntary Centre for cocoa	Cocoa Research Centre, Vellanikkara
20.	AICRP on Agroforestry	College of Forestry, Vellanikkara

21.	AICRP on PHET	KCAET, Tavanur
22.	AICRP on FIM	
23.	AICRP on IFS	IFSRS, Karamana
24.	AICRP on Honey Bees & Pollinators	RARS South Zone Vellayani
25.	AINP on Soil Biodiversity Biofertilizers	
26.	AICRP on Mushrooms	
27.	AICRP on Nematodes in Agriculture	
28.	AICRP on Forage Crops and Utilization	
29.	AICRP on Biological Control of Crop Pests	PRRAL Vellayani
30.	AINP on Pesticide Residues	
31.	AICRP On Cashew	RARS Pilicode
32.	AICRP ON Palms	
33.	AICRP on Spices	PRS Panniyur, RARS, Ambalavayal & CRS, Pampadumpara
34.	AICRP on Biological Control of Crop Pests	RARS Kumarakom
35.	AICRP (Sugarcane)	ARS, Thiruvalla
36.	AICRP on Integrated Farming Systems (IFS)	ORARS, Kayamkulam
37.	AICRP on Management of Salt Affected Soils and Use of Saline Water in Agriculture	RRS Vyttila
38.	AICRIP on double cropping of Rice	

Major Projects

1. ICAR-NAHEP-CAAST-KAU Project on “Knowledge and Skill development on Coconut based Secondary Agriculture”

The project which was started in 2018 with an outlay of Rs. 24 crores was completed in December 2023. The major objectives of the project were capacity building among students for entrepreneurship development, facilitating establishment of coconut based industrial units on tie up with farmer collectives, promoting industry-research linkage for addressing the research gaps through postgraduate and doctoral research programs and market research and analysis. Special emphasis was given to product diversification in coconut-based food sector. The major highlights of the project include development of more than a dozen value added products from coconut such as coconut milk fudge, coconut burfi, coconut halva, coconut laddu, coconut candy, coconut peda and coconut nutri balls. Flavored coconut milk was developed with pineapple, apple, banana and mango. Flavoured RTS beverage from coconut haustorium was developed and quality parameters were standardized.

2. KAU Cadbury Cocoa Research Project

Budding of 30 genotypes present in germplasm GVI set IV-part E were carried out. Fourteen *Phytophthora* resistant hybrids were crossed with high yielding CCRP varieties and other *Phytophthora* resistant hybrids. Ten pods were developed. Seven hybrids with high polyphenol content were crossed with CCRP varieties, in order to produce hybrids

with high yield and high polyphenol content. 3 pods were obtained and seedlings will be raised in the nursery. Fifteen hybrids with more than 45% fat content were crossed with high yielding CCRP varieties. Five pods were obtained and seedlings will be raised in the nursery. During 2023-24, S2, S4 and S5 generation of inbreds were selfed for producing high yield varieties. Thirty-three pods were obtained. 40 resistant hybrids, 42 hybrids with high fat content, 41 hybrids with high polyphenol content were selected and field established during 2023-24. Validation of TMB resistance in pipeline varieties were done using SSR & ISSR primers. SNP markers were developed for self-incompatibility. Field trials were conducted in three different locations (Kuruppampady, Adimali, and Thamarassery) to evaluate the endophytic bacteria strains EB 35 and EB31 (*Bacillus subtilis*, *ssp.subtilis* and *Pseudomonas putida* respectively). The results show that the native strains of endophytic bacteria are effective against PPR.

3. KSAMM

Basic details of all the ASC/KSC/KKS of the State were updated and capacity building requirements were assessed. Financial analysis was also undertaken. The KYKS attended the repair and service of 13 no's of agro machinery valued at Rs. 23.35 lakh based on demand from centres. Capacity building trainings on Grafting of Fruit Plants, Production of Vegetable Transplants through Grafting, Operation of Tractor/Tiller attached implements for various crop production, etc. were conducted at the three zones of the State and a total of 466 trainees, including members of ASC/KKS/KSC, were equipped with necessary knowledge and skill to ensure competency and self-reliance in mechanized sustainable agriculture. '*Karshika Yanthram Sarvvam Chalitham – Keralam*' was organized in 4 blocks of Kozhikkode district with 156 numbers of machinery, worth Rs. 139 lakhs being repaired. Similarly, 52 nos. of machinery worth Rs. 89 lakhs were repaired in seven Panchayaths/ Municipalities of Cherthala Block. As the Implementing Agency of the '*Kathirani*' project, designed by Kozhikkode District Panchayat for the fallow paddy cultivation. Mission undertook restoration of 4 ha of fallow land in Unnikulam Panchayath and formed a drainage canal of 580 m in Pookode Gramen Padashkeharam and 155 m drainage canal in Modakkallur padashekaram of Atholi Panchayath, which would benefit total of 16 ha of cultivable land. Under this project as well as other projects supported by various blocks and Grama panchayaths during 2023-24 Mission restored 25.5 ha of fallow lands (Unnikulam, Atholi, Changaroth). AMCC, Koothali (Agro Machinery Care Centre, Koothali) also organized an Agro Machinery Exhibition at Nochad Panchayath as a part of Karshkadinam and conducted a technical session for farmers on 17.08.2023. As per the direction from the Govt. considering the urgent demand of farmers of Kuttanad "Combine Harvester Efficiency Monitoring and Inspection Mobile Unit" (CHEMIMU) for Kuttanad was organized and started functioning during March 2024. The Mobile unit is stationed at MSSRRS, Moncompu and is monitoring the efficiency of Combine harvesters operating in Kuttanad in the current season. During 2023-24, KSAMM was assigned the responsibility of hand holding and operations of agro machinery procured under the RKI scheme.

4. Centre for Excellence on Vegetables & Flowers

The Centre of Excellence for Vegetables and Flowers is established as a demonstration cum training centre and commissioned as part of National Action Plan for Indo-Dutch Cooperation Project. The Centre of Excellence functions within the campus of the Regional Agricultural Research Station (RARS) at Ambalavayal in Wayanad district in an area of about 300 acres. The total outlay of the project is 13.5 crore. The main

objective of starting the centre is to have a Hi-tech Demonstration Centre for vegetable and flower production and transfer of these technologies through trainings to extension officers and farmers in the state. The project envisages introduction and development of new technologies that are required to augment the production of vegetables and flowers, reduce post-harvest losses in the supply chain (Field/ PHT/ Storage/ Transportation) and assure quality produce to consumers and exporters. The technical support from the Netherlands is ensured for the operation of the center. To meet these objectives Hi-tech seedling production and crop production centers, Post - harvest technology centre, training centre for Hi-tech production of vegetables and flowers were established. The CoE functions as a Special Purpose Vehicle (SPV) by drawing officials on deputation from the Department of Agriculture and Farmers Welfare and the Kerala Agricultural University.

5. MIDH spice activities at KAU

As a part of programme 7.26 lakhs of black pepper cuttings, 5.83 t of ginger seed rhizomes, 13.4 t of turmeric and 5.5 5 lakhs of Ginger transplants were produced during the year 2023-24. Technology dissemination through demonstration of improved technologies of spices and aromatic plants were also conducted. As a part of the programme, demonstration of disease-free ginger seed production using micro rhizome and integrated disease management practices, in ten districts of the states, in 50 farmers field was conducted.

6. Centre of Excellence in Agricultural Mechanization Extension Services and Development at ARS Mannuthy (with sub centre at KCAET, Tavanur)

The Centre is involved in the research and development of agricultural machinery and in conducting capacity building programmes for the various stakeholders involved in agricultural mechanization sector in the State. During the report period, the Station has modified the tractor operated lime applicator, to apply powdered lime @ 35 to 50 g per square meter at a speed of 6 kmph and 4 kmph respectively. The equipment, with an overall dimension of 2.5 x 0.52 x 1.1 m and weighing approximately 500 kg, can cover one hectare in one hour at the specified rate of application and be operated by 35 to 45 hp tractors. In addition, the lime applicator was also modified to powder the calcium oxide (burnt lime) directly. Sixteen hands-on training programmes in Total Agricultural Mechanization were conducted for 456 trainees from different parts of the State, of whom 226 were women.

7. Centre of Excellence in Hi Tech Horticulture and Precision Farming

The Centre aims at standardization of technology for cultivation of high value horticultural crops in poly houses and under open precision condition. The Centre is also regularly conducting training programs for HRD and technology transfer in the areas of Hi-Tech Horticulture and precision farming. In 2023-24, Cabbage -varieties NS43 and Indam Saina, Cauliflower – varieties C7113 and C6041, Carrot – variety Amber, Beetroot – varieties Shivani, Castillo, Red Gold, Mahilal 2, Indam Ruby queen, Beet Madhur, Radish – varieties Imported Chetaki, Palaki, Century 05, Palak – variety Pusa Bharathi were evaluated for performance under open precision farming in plains of Kerala.

8. Centre of Excellence in Microbial Technology

The Centre is functioning as a nodal center of the State providing mother cultures of biocontrol agents and biofertilizers and catering the technological requirement of all the production centers in Kerala. Developed liquid formulations of Nitrogen fixers viz., *Azospirillum lipoferum* & *Azotobacter chroococcum* and PGPR Mix- I. Liquid formulation of - PGPR Mix- I was developed and the shelf-life studies revealed significant population even after twenty-three months of storage. Bead formulation of PGPR MIX I was prepared and survival studies showed that the cultures of PGPR MIX I could survive upto 7 months in beads. Different filler materials such as starch, talc and wheat flour were tested. The technology of household waste management using composting inoculum was further tested in different types of bins.

Journal of Tropical Agriculture

Journal of Tropical Agriculture is being published by KAU on half yearly basis. For 2023, it was published as 61(1) and 61(2) with 15 articles and 5 short communications in each.

Major research projects completed during the report year

Sl. No.	Project	Funding Agency
1	Plan 2021-22, Standardization of package of practices for yield improvement in greater galangal (<i>Alpinia Galanga</i>) at AMPRS, Odakkali	State Plan
2	Plan 2022-23, Station wise funding on ongoing research projects and minor infrastructure at AMPRS, odakkali	State Plan
3	Plan project 2022-23- "Bioprospecting of underexploited medicinal and aromatic plants for their comprehensive utilization" at AMPRS, Odakkali"	State Plan
4	Plan project 2022-23- "Evaluation of promising cytotoxic plant extractives for antiproliferative potential and standardization of agrotechnology for these selected crops for yield and metabolite accumulation" at AMPRS, Odakkali" (Collaborative Project) AMPRS, Odakkali	State Plan
	Collaborative centre: Dept. of Plant Biotechnology, CoA, Vellayani	
5	Annual Plan Project 2022-23 "Ecofriendly cultivation of seasonals in growbags" at BRS, Kannara	State Plan
6	Establishment of small nursery for the production of elite planting materials of horticultural crops at ARS, Anakkayam	SHM
7	Station wise funding - Strengthening Research and development activities at ARS, Anakkayam	State Plan
8	Annual Plan 2021-22-Station wise funding-Standardisation of technology for fresh cut pineapple" at PRS, Vazhakkulam	KAU
9	Annual Plan Project 2022-23- "Strengthening Production of Quality Planting Materials, T.C. Banana, Coconut, Vegetables and Bio-inputs	KAU

	in KAU”	
10	Annual Plan 2022-23-Station wise funding- “Research on Pineapple” at PRS, Vazhakkulam	KAU
11	State Plan project- Characterization of sexual compatibility of cashew varieties	State Plan
12	Station wise funding on ongoing research projects and minor infrastructure at ARS Chalakudy with subtheme studies on comparative evaluation of incidences of landslides at Attappadi versus the hilly tracts of Idukki, Wayanad and Malappuram	State Plan
13	Strengthening Production of Quality Planting Materials, T.C. Banana, Coconut, Vegetables and Bio-inputs in KAU (2022-23)	State Plan
14	Strengthening Production of Quality Planting Materials, T.C. Banana, Coconut, Vegetables and Bio-inputs in KAU (2023-24)	State Plan
15	Station wise funding on ongoing research projects and minor infrastructure at ARS Chalakudy 2022-23	State Plan
16	Establishment of integrated farming system unit and high-tech nursery of fruits and vegetable at district jail, Kakkand	NABARD
17	Development of small farm agro machinery for homestead farming	Annual Plan
18	Faunal diversity of spider mites (Prostigmata: Tetranychidae) associated with agricultural ecosystems of Kerala	SERB (DST)
19	Development of nutraceuticals beverages from underutilized fruits and vegetables	State Plan
20	Establishment of winery at KAU for post-harvest utilization and value addition of tropical fruits	State Plan
21	Estimation, quality evaluation and utilization of dietary fiber from vegetables	State Plan
22	Social Science Research - Partnering between Local Self Government Institutions and Kerala Agricultural University in the new phase of decentralized planning: An extension research programme- SUSTHITA SAMRUDHI - (R&D support for LSGI by KAU):	State Plan
23	National Network Sub-project on Profile analysis of farmer producer companies in India:	ICAR-NAHEP-CAAST
24	Climate proofing the coconut plantations in Kerala	State Plan
25	Biotic stress management of vegetable crops under protected cultivation	GoK Plan
26	Bio efficacy of capsule formulation of <i>Trichoderma</i> sp. and <i>Pseudomonas fluorescens</i> against plant pathogens in different Agro Ecological Units (AEU) of Kerala	GoK Plan
27	Scaling up the production of KAU liquid formulation of bioagents and its distribution to the farming community of Kerala	GoK Plan
28	Rice husk compost: A sustainable option for rice ecosystem management	GoK Plan
29	Rice husk compost: A sustainable option for rice ecosystem management	GoK Plan
30	Investigation on pitting diseases of banana in Kerala	GoK Plan
31	Network project on nanotechnology	GoK Plan
32	Adaptation and mitigation strategies for combating climate change effects on mango production in Muthalamada Panchayath of Palakkad District	DOECC

33	Network project on potential impact of climate change and flood on Kerala soils: AEU wise mitigation and adaptive strategies	State Plan
34	Infrastructure Development in the Department of Soil Science and Agricultural Chemistry, CoA, Vellanikkara	State Plan
35	Develop e-learning modules for Gender Responsive Climate Smart Agriculture to reach small holder women farmers	State Plan
36	Station wise funding “Campus beautification and maintenance of central irrigation facility in Kerala Agricultural University, Main Campus, Vellanikkara”	State plan
37	Strengthening production of quality seeds planting materials, TC banana, vegetables and bio- inputs in KAU”	State plan
38	Mission For Integrated Development Of Horticulture - Development Programmes On Spices & Aromatic Plants of The Directorate Of Arecanut And Spices Development, Calicut	MIDH
39	Refining technologies for primary and secondary processing of cocoa with emphasis to free fatty acid content	GoK
40	Development of sustainable harvesting techniques of NTFPs and enhancing marketing strategies with livelihood mapping in Vazhachal-Parambikulam regions of Kerala	WWF-India
41	Documentation and status of Invasive Alien Plant Species in Munnar Wildlife Division	KFD
42	Establishment of Medicinal Plant Garden For Extension And Education With Special Reference To Ret Species Of Western Ghats	SMPB
43	Establishment of Medicinal plants field gene bank and Seed centre	SMPB
44	AICRP on Farm Implements and Machinery (FIM)	ICAR
45	Centre of Excellence in Agrl. Mechanization	State Plan
46	AICRP on PHET	ICAR
47	Strengthening production of quality planting materials, TC banana, coconut, vegetables and bio inputs in KAU	GoK
48	Knowledge and Skill development on Coconut based Secondary Agriculture	ICAR-NAHEP-CAAST
49	Conservation of germplasm and developing climate resilient varieties of black pepper for sustainable farming	DOECC
50	Establishment of a small bamboo nursey for quality planting material production	State Bamboo Mission
51	Doubling income of SC farmers of Kollam district by integrated crop management in paddy	ICAR-IIRR
52	Network project on Collection and conservation of indigenous jack (<i>Artocarpus heterophyllus</i>) varieties and identification of high yielding variety for the homesteads of Kerala	State Plan
53	Drought mitigation strategy in banana cv. Nendran (Musa AAB)	KAU Plan
54	Promotion of integrated farming through skill upgradation of master farmers	NABARD
55	Exploration of Gut Microbiome for Sustainable Beekeeping	NBB - ICAR
56	Setting up of Mini Honey Testing Lab	NBB

57	Establishment of Centre for formulation of convenient food	RKVY
58	Women empowerment through postharvest management and value addition of vegetables	State Plan
59	Identification of molecular markers and QTLs linked to nutritional and functional properties of specialty landraces of rice (<i>Oryza sativa</i> L.) from Kerala using association genetic analysis.	Plan
60	Network project on utilization of beneficial endophytic for plant growth promotion and management of plant disease in important crops in Kerala	State Plan
61	Network Project on breeding vegetable crops for yield and resistance to diseases	State Plan
62	Pesticide residue monitoring and promotion of safe to eat food commodities in Kerala	DAD & FW
63	Supervised field trail on residue and dissipation of iprovalicarb 8.4% + Copper Oxy chloride 40.6% WG in tomato	ICAR
64	Supervised field trail on residue and persistence of tetraniliprole 200 g/L SC (Vayego) in/on chilli and soil one season	ICAR
65	Supervised field trail on residue and persistence of fluoxapiprolin 30 g/L + fluopicolide 200 g/L SC in/on cucumber and soil (one season)	ICAR
66	Supervised field trail on residue and persistence of Velum prime in Okra leaves fruits and soil after application of velum prime through drip irrigation	ICAR
67	Supervised field trail on residue and persistence of Velum prime in okra after application of velum prime through soil drenching	ICAR
68	Supervised field trail on residue and persistence of fosetyl aluminum and its metabolites, immature cardamom capsules mature cured cardamom capsules	ICAR
69	Supervised field trail on residue and persistence of isocycloseram in tomato after foliar spray of isocycloseram 9.2% w/w DC	ICAR
70	Supervised field trail on residue and persistence of fluopicolide, its metabolites, fosetyl aluminum and its metabolites in immature cardamom capsules (pods with seed), mature cured cardamom capsules (dry pod with seed)	ICAR
71	Supervised field trail on residue and persistence of SOLOMON 300 OD (Beta cyfluthrin 90 + Imidacloprid 210 OD) on rice	ICAR
72	Supervised field trail on residue and persistence of fluopyadifurone in tomato	ICAR
73	Establishment of Centre for formulation of convenient food	RKVY
74	Women empowerment through postharvest management and value addition of vegetables	State Plan
75	Identification of molecular markers and QTLs linked to nutritional and functional properties of specialty land races of rice (<i>Oryza sativa</i> L.) from Kerala using association genetic analysis.	State Plan
76	Standardization of Tissue Culture Media for the Micropropagation of Traditional and Dwarf Red Bananas	State plan

77	Network project on Development of novel hybrids of orchids and rapid multiplication through micropropagation	State plan
78	Training on Biofertilizers, bio-input preparation and Nursery operations	State Plan
79	Evaluation of strobilurin fungicide and actinomycetes for the management of foot rot and slow decline in Black pepper	AICRP
80	Co-ordinated Varietal Trial 2015 on Farmer varieties of Black pepper Series VII	AICRP
81	Co-ordinated Varietal Trial 2015 on Black pepper Series VIII	AICRP
82	Climate change, floods and rural farming communities in Kuttanad: A shift from disaster management towards disaster preparedness	DOECC
83	Network Project on Soil loss estimation and monitoring in the highland ecosystems of Kerala for effective conservation planning	State Plan
84	Network project on Collection and conservation of indigenous jack (<i>Artocarpus heterophyllus</i>) varieties and identification of high yielding variety for the homesteads of Kerala	State Plan
85	Bio efficacy of capsule formulation of <i>Trichoderma sp.</i> and <i>Pseudomonas fluorescens</i> against plant pathogens in different agro Ecological units	State Plan
86	Establishment of Bio Control Lab	SHM
87	Evaluation of high yielding pre-released cultures of RRS, Moncompu for performance in different agro-ecological units of Kerala” at Rice Research Station, Moncompu	State Plan
88	Transfer of Technology for small scale startups for urban women	State Plan
89	Centre of excellence in Molecular Breeding in Rice	State Plan
90	Strengthening Production of Quality Planting Materials, T C Banana, Coconut, Vegetables and Bio-inputs in KAU	State Plan
91	Development of Micro propagation protocols for economically important tree crops	State Plan
92	Identification and Characterization of novel saline tolerant Genetic Resources/Alleles from Traditional Rice Varieties (TRVs) of Kerala	DST-SERB
93	Validation of nutrient stick –A complete customized fertilizer for periurban vegetable cultivation	State plan

Research Seminars/ Conferences/ Workshops conducted

Item	State level	National	International
Seminar	37	2	1
Workshop	3		2
Online programs	1	2	
Others	91	2	

Production of seeds, planting materials, bio control agents and value-added products

1	Item	Quantity Produced
1	Paddy	
	BS(Kg)	5253.4
	TLS(Kg)	3111107.58
2	Vegetable	
	BS kg	1.5
	TLS (Kg)	10446.7
	Vegetable seed packet	508190
3	Vegetable seedlings/Cuttings	1506307
4	Coconut - Nos	
	WCT/OP	306869
	Hybrids	90326
	Komadan	8400
	Dwarfs	1893
	Seed nuts	105
5	Pulses and oil seeds (Kg)	2148.431
6	Arecanut (all variety in Nos.)	398028
7	Pepper cuttings	818286
8	Spices (Nos)	51162
9	Garcinia (Nos)	12446
10	Coffee (Nos)	199504
11	Cocoa (Nos)	25851
12	cashew (Nos)	59669
13	sugarcane (setts)(Kg)	300
14	Ginger (Kg)	1282.7
15	Ginger seedlings (Nos)	204638
16	Turmeric (Kg)	5713.7
17	Turmeric seedlings (Nos)	3372
18	Tubers (Kg)	6301.56
19	Mango (Nos)	208299
20	Sapota (Nos)	64544
21	Jack (Nos)	97253
22	Other fruits (Nos)	153078
23	Ornamental Plants (Nos)	144846
24	Foliage Plants (Nos)	42789
25	Flower seeds (Kg)	8700.08
26	Medicinal Plants (Nos)	50290
27	Fodder crops slips (Nos)	24833
28	Forest Plants (Nos)	55570
29	TC Plantlets (Nos)	416467
30	Other planting materials (Nos)	11834
31	Mushroom	
	Mushroom (kg)	1431.042
	Mother (kg)	197.1
	Spawn (pkt)	55325
32	Bio control Agents	
	Pseudomonas (Kg)	69114.02
	Pseudomonas (L)	3580.3

	Trichoderma (Kg)	60424.245
	Trichoderma (L)	1098.3
	Vermicompost (kg)	71840
	Enriched vermi compost(kg)	16613.26
	Coir pith compost (kg)	9437.5
	Enriched coir pith compost (kg)	19775
	Pher Trap Vege. (Nos)	3519
	Pher Trap Mango (Nos)	3184
	Azolla (kg)	630.38
	Earth worm (Kg)	26388.64
	Tricho Cards (cc)	6284
	Nanma (L)	557
	Shreya (L)	494.8
	KAU Sampoorana Multi Mix kg	36019.315
	KAU Ayar Micronutrient kg	103603
	Beauveria (Kg)	16272.5
	Metarhizium(Kg)	7468
	Paceiolomyces(Kg)	15909.5
	KAU Smart Biobin	44
	Verticillum(Kg)	7164.5
	AMF	4327
	Mycorrhiza	10651.372
	Azorpirillum	1538.5
	P-Solubilizer	1542.5
	Azotobacotr	547
	PGPR Mix II	2997.8
	PGPR Mix II	1316.7
33	Others (Kg/nos/L)	
34	Bee hive with colony	55

6 - EXTENSION

Major developments

1. Entered into new collaborations and continue existing ones with the Kerala State Department of Agriculture, MANAGE, CIFT, NABARD, Directorate of Cashewnut & Cocoa Development (DCCD), LSGD, and the Kerala State Department of VHSE.
2. Upgraded common facility centre was inaugurated at Communication centre, Mannuthy and hot air drier, pulverizer and garlic peeler were newly installed.
3. Commissioning of 5KW solar plant was done at Communication centre, Mannuthy in association with the ANERT and KSEB
4. An advanced sound proof, recording cum editing studio was inaugurated at ATIC, Mannuthy.
5. Released scientific protocol for paddy crop of Kole land
6. Released 'Package of Practices Recommendations 2024' and obtained International Standard Book Number (ISBN)
7. KAU News: periodicity has been enhanced to bimonthly from January 2024
8. Launched online sale of KAU publications with 'Keralagro' brand name through Amazon and Flipkart.
9. Released coffee book "Abode", describing the activities of various units under DoE, KAU in January 2024.
10. Launched 41 new generation certificate courses of KAU
11. In commemoration of the Golden Jubilee of Kerala Agricultural University, a memoir (KAU Golden Jubilee Souvenir) that highlights the University's history, achievements and the contributions of KAU institutions over 50 years along with messages of eminent personalities and erstwhile Vice Chancellors and the memories of selected KAU alumni were compiled under the leadership of Central Training Institute, DoE, Mannuthy. KAU Golden Jubilee Souvenir was released by Adv. K. Rajan, Honourable Minister of State for Revenue & Housing and Executive Committee member of KAU, by handing over a copy of the same to Dr. A. Sakeer Husain, Registrar, KAU.
12. RAFTAAR Agri Business Incubator received a total amount of Rs.302.4 lakh for recurring fund (Rs. 32.00 lakh) and start up fund (Rs. 270.40 lakh) from Govt. of India for the financial year 2023-24. RAFTAAR Agri Business Incubator conducted about 52 Entrepreneurship development training programmes to entrepreneurs, farmers, SHG, FPO's etc.
13. Conducted 11 MOOC courses and 4 online certificate courses at Centre for e Learning.
14. Installed Automatic Weather Station and established exotic fruit plants demonstration unit at ETC Manjeswar
15. Conducted Zonal Women Agri-preneur conclave (including all KVKs of Kerala and Karnataka) during 20-21 January 2024 at KAU Central Auditorium, Thrissur, jointly organized by KAU and ICAR (ICAR funded). The programme was inaugurated by Sushri. Shobha Karandlaje, Hon'ble Union Minister of State for Agriculture and Farmers' Welfare & Food Processing Industries.

Major outreach activities & achievements

1. Conduct of FLD/OFT: Besides those carried out by KVKs, FLDs of KAU technologies were conducted by scientists of KAU (nodal officers of BLAKC) in 152 BLAKCs to

- address agricultural issues specific to the block, in collaboration with the State Department of Agriculture.
2. Farm Plan based Production Program (FPPP) training for the BLAKC nodal officers of all the districts was organized
 3. In collaboration with Department of Agriculture, orchestrated the Farmer- Extension Scientist (FES) interface programme at various places.
 4. Micronutrient spraying of crops using drone technology has been introduced among farmers by various centers of agricultural universities.
 5. Face-to-face Agricultural Science Debate program has been held continuously for the last three years to disseminate agricultural knowledge in the general society and hold debates. Trainees from all over Kerala participate in this program, which is very useful for public activists and people.
 6. A number of leading exhibitions, field trial programs and vocational training are organized through Krishi Vigyan Kendras to impart the technologies developed by the Agricultural University to the farmers.
 7. Central Training Institute conducted training courses in agriculture and agriculture related fields through a special system called School of Entrepreneurship Development.
 8. MDDT visits were conducted efficiently under the leadership of university scientists.
 9. Produced videos on various centers of agricultural university and short videos on agricultural techniques under the leadership of ATIC.
 10. To strengthen the public interface of the University, the Directorate of Extension organized several workshops, seminars, and interactive sessions.
 11. Distribution of quality seeds, seedlings, inputs and value-added products was carried out *via* the Agricultural Technology Information Centre, Communication Centre, Agricultural Information and Sales Centre and KVKs.
 12. Mobile Exhibition Unit/Vithuvandi visited different locations of Thissur district.
 13. Centre for e Learning monitors the Agromet advisory program to be followed on every Tuesday in agricultural awareness and related agricultural programs in collaboration with the Department of Metereology, Vellanikara. Centre for e-Learning is also making a video for the same and publish on the KAU Agri Infotech portal.
 14. In collaboration with MANAGE and ATMA, DoE implemented DAESI (Diploma Programme for Agri-Input Dealers) programme which was intended to transform input dealers into para-extension professionals capable of addressing day-to-day problems faced by the farmers at the field level, through various KVKs and other Institutes of KAU.
 15. Implemented the INM course program that was introduced by the Central Government for dealers of fertilizer and pesticides.
 16. Schedule Castes Sub Plan (SC/SP) and Tribal Sub Plan (TSP) Programmes: Under the ICAR Development Grant - sub component “Scheduled Caste Sub Plan”, a project, implemented through all the KVKs under the control of DoE has been sanctioned aiming to conduct trainings, counsellings and upliftment programmes for the beneficiary group under SC community.
 17. Extension centre for tribal areas: Under the State Plan, the KVK, Palakkad is implementing this project for the benefit of tribes in Palakkad. Targeted strategies for the benefit of SC-ST farmers have been implemented in areas such as millet production, planting material distribution, technology dissemination *etc.*
 18. Provided Monthly Technology Advice (MTA) to extension personnel’s from Department of Agriculture and VFPCK.

19. Implementing the project, Satellite Incubation Centre (SIC) at RARS, Pattambi in collaboration with ICAR-CTCRI, Sreekaryam for addressing the tuber crops related location specific and value-chain problems through entrepreneurship.
20. Implementing National initiatives
 - DAMU Project: District Agromet Units
 - ARYA: Attracting Rural Youth in Agriculture
 - NICRA: National Initiatives on Climate Resilient Agriculture
 - UBA: Unnat Bharat Abhayan
 - *Bharatiya Prakritik Krishi Paddhati*: Natural Farming
 - DFI: Doubling Farmers' Income
 - *Kisan Saarathi* Portal: Agro advisories

Trainings Conducted

Thrust areas	Farmers	Entrepreneurs	Scientific personnel	Govt. Dept. staff	Others
Crop protection	4684	1	344	1000	113
Value addition	2512	681	6	90	477
Nursery Management	1966	10	0	0	70
Pest/weed management	1107	0	0	110	104
organic farming	2340	0	0	0	105
Entrepreneurship	2001	350	22	20	147
Precision/hitech farming	253	0	0	92	0
Irrigation practices	274	0	0	0	0
Floriculture	975	0	0	0	201
Farm mechanization	1006	0	0	0	3
Apiculture, aquaculture,	629	0	0	0	155
Food processing	1605	250	0	0	56
Animal husbandry	964	0	0	183	0
Others	6110	364	1344	432	372

Major Exhibitions

1. Participated in Thrissur Pooram Exhibition, conducted from April to May 2023 and bagged best pavilion award in the agriculture sector.
2. Organized International flower show, 'Pooppoli 2024' at RARS, Ambalavayal from January 1 -15, 2024. More than 5 lakh people visited Poopoli.
3. Organized Farm carnival 2024 at RARS, Pilicode from January 4 – 14, 2024

"Pooppoli 2024", the international flower fest was conducted from 1st to 15th January 2024, at the Regional Agricultural Research Station (RARS) Ambalavayal, Wayanad. The 8th edition of this spectacular event was jointly organized by the Kerala Agricultural University and the Department of Agriculture Development and Farmers' Welfare. This flower festival sought to promote improved cooperation amongst many stakeholders in the floriculture sector as well as to highlight the potential of floriculture in the high range zone. The fest's major attractions were its huge flower collection and themed gardens. An agro

industrial exhibition was organized on the sidelines of the event, with the participation of top players in the agricultural sector. Renowned research institutes of ICAR and Agricultural University, line departments, NGOs as well as private agro firms participated in the event. As a part of this flower fiesta, technical sessions such as seminars, farmer-scientist interface, and variety competitions were also conducted. Food courts, amusement park and cultural programmes added more charm to the flower fest.

Other exhibitions:

1. As a part of Navakerala Sadassu, conducted exhibitions in all the districts
2. Pushpamela, Thrissur conducted from 22.12.2023 to 01.01.2024
3. National Workshop on FPO’s in India: Profile & Potential, Vellanikkara from 01.12.2023to 02.12.2023
4. Exhibition, as part of golden jubilee celebration of college of Agriculture, Vellanikkara
5. Exhibition conducted in VAIGA 2023 at Trivandrum

Exhibitions conducted as a part of

6. Soil day celebrations
7. Pulse day
8. Millet exhibition
9. Women agripreneur conclave
10. Karshakadinam
11. Kumarakom fest

Krishi Vigyan Kendras

Krishi Vigyan Kendras act as a direct link between ICAR, Kerala Agricultural University and farmers in their respective jurisdictions. Krishi Vigyan Kendras (KVKs) play a crucial role in agricultural development and farmer welfare. Promoting sustainable agricultural practices, including organic farming, integrated pest management, and conservation agriculture, is a key focus of KVKs. Krishi Vigyan Kendras under the Kerala Agricultural University can function anywhere in the district where they are located. They conduct on-farm testing to assess the performance of agricultural technologies in the local context and demonstrate these technologies to farmers. KVKs organize training programs on a variety of subjects, including crop production, organic farming, pest management, animal husbandry, and value addition. They provide timely and relevant agricultural advice through various communication channels, and engage in extension activities like field days, farmer-scientist interactions, exhibitions, and agricultural campaigns to disseminate knowledge. Moreover, KVKs use farm trials and participatory rural appraisal to address farmers' issues through adaptive research. They support agri-entrepreneurs by offering instruction and direction on agribusiness endeavors, food processing, and value addition. In this manner, KVKs serve as a link between farming communities and research institutions, ensuring that farmers are informed about the most recent advancements in agricultural research.

KVK	No. of Trainings conducted	No. of FLDs conducted	No. of OFTs conducted
KVK, Kannur	126	17	4
KVK, Wayanad	235	14	7
KVK, Malappuram	78	15	2
KVK, Palakkad	213	18	4

KVK, Thrissur	267	11	8
KVK, Kottayam	118	18+ 10 (ongoing)	4+ 6 (ongoing)
KVK, Kollam	159	17	5

Major Extension Projects

Sl. No.	Name of Project	Funding Agency	Financial outlay (Lakh)
1	Strengthening Extension and Outreach Activities	Govt. of Kerala	30.0
2	Training programs by research stations	Govt. of Kerala	5.0
3	NABARD “Promotion of Integrated farming thorough skill upgradation of master farmers”	NABARD	24.0
4	Strengthening the extension & outreach activities of KAU at Communication Centre, Mannuthy	State Plan	10.0
5	Maintenance of Kissan Eco park & strengthening of common facilitation centre at Communication Centre, Mannuthy	State Plan	5.0
6	Establishment of exotic fruit plants demonstration unit at ETC Manjeshwar	Govt. of Kerala	5.0
7	Establishment of Extension centre for tribal areas at Palakkad	Annual Plan	2.49755
8	Establishment of a Tuber crop museum at KVK, Thrissur	State Plan	2.0
9	Establishment of Common Facility Centre at KVK Thrissur	NABARD	17.685
10	Establishing a mass production unit for bio control agents at KVK, Kannur	SHM	44.775

RAFTAAR Agri Business Incubator, Dept. of Agricultural Engineering, College of Agriculture, Vellanikkara.

To rejuvenate and cater the needs and modalities for agribusiness promotion, the Government of India introduced a revamped “Rashtriya Krishi Vikas Yojana – Remunerative Approaches for Agriculture and Allied Sector Rejuvenation” (RKVY-RAFTAAR) under the Ministry of Agriculture and Farmers’ Welfare (MoA&FW). It is aimed at strengthening infrastructure in Agriculture and Allied sectors to promote Agripreneurship and Agribusiness by facilitating financial aid and nurturing a system of business incubation. Being the pioneer institution in agriculture and allied sectors, the Kerala Agricultural University established KAU RAFTAAR Agri Business Incubation (KAU- RABI) Centre in 2019 to take forward the vision and objectives of RKVY RAFTAAR. KAU RABI envisages agribusiness incubation by helping creative minds to innovate and audaciously use technologies for venture creation in agriculture. KAU RABI supports agribusiness incubation by tapping innovations and technologies for venture creation in agriculture. KAU RAFTAAR Agri-Business Incubator conducted two months of Agripreneurship orientation and startup and Incubation training programme for five cohort of incubates and about 208 entrepreneurs were benefited through the programmes. 84 selected stratups under RKVY-RAFTAAR scheme were bagged 10.97 crore as Pre-seed stage and seed-stage funding from Ministry of Agriculture and Farmers Welfare.

Name of Project	Funding Agency	Financial outlay
RKVY- RAFTAAR-Agri Business Incubator	RKVY, Ministry of Agriculture & Farmer welfare	Recurring: 78.557 Startup: 284.40

Centre for e - Learning, ITBT Complex, Vellanikkara:

Centre for e-Learning (CeL) is acting as a platform to learn about agriculture, with special emphasis on up-to-date technologies and agri-enterprises through online certificate courses, Massive Open Online Courses (MOOCs) and online training programmes for students, extensionists, farmers and the general public. The motto of CeL is to make available up-to-date agricultural knowledge and technologies to all that require the information at their fingertips throughout the year.

Visual Media/ Studio

Audio-visual media can convey complex agricultural techniques and information more effectively than text alone. Visual demonstrations help farmers understand and implement new practices better. A recording studio allows for the creation of a library of instructional videos and audio files that can be archived for future use, providing a valuable resource for continuous learning. With this objective, an advanced sound proof recording cum editing studio was established in ATIC, Mannuthy. The official inauguration of the studio was done by Adv. K. Rajan, Honourable Minister of State for Revenue & Housing and Executive Committee member of KAU.

Sl. No.	Item	No.
1	Radio talks/discussions	18 No. done; 4 Nos. coordinated
2	Videos uploaded in social media	61
3	TV programs done	13

University publications

"Kalpadhenu" is the semi-scientific farm journal published by Kerala Agricultural University (KAU). It is published at quarterly intervals. This journal serves as a bridge between scientific research and practical farming, providing valuable insights, research findings, and practical advice for farmers and agricultural professionals.

Kerala Agricultural University (KAU) publishes various newsletters and bulletins to keep students, faculty, and stakeholders updated on recent developments, research findings, events, and other activities related to agriculture in Kerala. These newsletters often include information on academic programs, extension activities, research projects, and collaborations with other institutions and organizations. Periodicity of 'KAU News' has been enhanced to bimonthly from January 2024.

Publications	No. of publications
Weekly/Monthly magazines	6
Quarterly/ half-yearly magazines	7
Scientific books	2
Journals	18

Text books	0
Academic manuals	7
Others	44

Printed	No.
Magazines	2156
Journals	5
Scientific books	2
Text books	2
Academic manuals	1
Question papers	10
Others	95

Extension Seminars/ Conferences/ Workshops conducted

Item	State level	National	International
Seminar/webinar	19		International seminar on “Sustainable Urban Agricultural Systems and Community Resilient Cities” from 22/3/2024 to 23/03/2024
Workshop	9		Inter Phase Programme-REFM Linkage on 30/06/2023
Symposium	2		
Conference	2		
Online programs	1	7	
Others Woman agripreneur Conclave	1		
Others (Trainings)	72		

Other Outreach activities

Farm Advisory and Diagnostic Services were offered through field visits, direct interaction, phone calls, and e-mails. Field visits by Multi-Disciplinary Diagnostic Teams (MDDT) of scientists from Kerala Agricultural University help to identify the field problems particularly, sudden outbreaks of pests and diseases and to suggest remedial measures for the problems identified in the fields. The team visits the area on the request of competent officials from the state agriculture department. Complaints received from various Krishi Bhavans to ATMA are submitted to the Directorate of Extension for redressal guidelines. After the visit, the MDD team comprising the expert committee submits its report to the Project Director ATMA and suggests remedial measures to the farmers. More than 100 Multi-Disciplinary Diagnostic Team visits were made during the current year.

Agroclinic, an interface initiative that allows farmers to communicate directly with an interdisciplinary team of scientists. These are specialized facilities or centers that provide a range of advisory, diagnostic, and support services to farmers, aiming to enhance agricultural productivity and sustainability. With the help of institutions under DoE, Agroclinics were conducted throughout the state. KAU in collaboration with Agriculture Technology

Management Agency (ATMA), Monthly Technological Advisories (MTA) were also conducted to recommend solutions for the problems of farmers.

Museums

Name of the Museum	No. of visitors
Central Technology Museum of KAU	2716
Eco park	465

7 - FINANCE

Receipts- Abstract of budget estimate, revised estimate and actuals - 2023-24

Sl. No.	Source of funds	BE (lakhs)	RE (lakhs)	Actuals* (lakhs)
1	Plan	7500.00	7500.00	1000.00
2	Non-Plan grant in aid	40778.10	40778.10	40778.095
3	ICAR Projects-100 percentage	1480.567	1480.567	1767.44394
4	ICAR Co-ordinated Projects	1696.360	1696.360	1712.69475
5	GOK	900.00	900.00	288.89464
6	Other EAPs	2400.00	2400.00	1322.48445
7	ICAR Revolving funds	622.250	757.750	568.67821
8	KAU Revolving funds	2145.10	2391.00	1755.12640
9	OEAP Revolving funds	1812.00	2049.00	1707.28734
10	Fees	698.375	898.691	858.81635
11	Sales of produces (Income from University properties)	1003.087	1290.606	1077.02348
12	Others (interest)	667.855	392.5	498.09185

*Annual Accounts for FY 2023-24 not finalized

Expenditure- Abstract of budget estimate, revised estimate and actuals - 2023-24

Sl. No.	Source of funds	BE (lakhs)	RE (lakhs)	Actuals* (lakhs)
1	Plan	6964.072	6964.072	1595.01464
2	Non-Plan grant in aid	69331.286	56626.889	43891.45689
3	ICAR Projects-100 percentage	1218.093	1866.044	1763.95889
4	ICAR Co-ordinated Projects	2143.712	2895.287	2460.92213
5	GOK	900.00	1237.702	287.75054
6	Other EAPs	2110.14	1954.923	1756.65739
7	ICAR Revolving funds	861.15	694.00	541.92091
8	KAU Revolving funds	2072.45	2085.75	1321.10774
9	OEAP Revolving funds	1912.35	1943.65	1656.03598

*Annual Accounts for FY 2023-24 not finalized

Component wise expenditure for the year 2023-24

Sl. No.	Item	Expenditure* (lakhs)
1	Salaries	18301.95572
2	Wages	6224.52439
3	Pension/Ex-gratia pension	18178.00475
4	DCRG/Commuted value of pension	1831.81172
5	TA	121.59112
6	Advertisement	76.58166
7	Advocate fees for court cases, fees for legal advice	9.8324
8	Consultancy fees	1.91174
9	Farm activities	178.26018

10	Infrastructure	657.93116
11	Others	9867.35697

*Annual Accounts for FY 2023-24 not finalized

Details of deposits maintained for specific purposes (in banks, treasury etc.)

Account item	Opening balance	Receipt	Expenditure	Savings
TSB A/c No. 799010100341264 GPF FD	88,00,000	14,00,000		1,02,00,000
TSB A/c No. 799010100010291 GPF FD	102,04,95,000	3,93,00,000		105,97,95,000
FBS FD	5,19,75,000	61,00,000		5,80,75,000
WFS FD	1,51,55,000	24,00,000		1,75,55,000

Workers Provident Fund (WPF)

Account item	Opening balance	Receipt	Expenditure	Savings
SB A/c No. 57006546393	85,24,432	5,45,35,672	5,63,16,395	67,43,709
TSB A/c No. 799010100341244	54,67,538	1,66,42,722	2,20,00,000	1,10,260
Fixed Deposit	12,88,05,000	2,20,00,000	0	15,08,05,000

Workers Welfare Fund Scheme (WWFS)

Account item	Opening balance	Receipt	Expenditure	Savings
SB A/c No. 57006549010	68,860	3,13,465	1,62,926	2,19,399
TSB A/c No. 799010100061374	2,17,757	1,70,758	3,65,000	23,515
Fixed Deposit	21,00,000	3,65,000	0	24,65,000

Workers Family Benefit Scheme (WFBS)

Account item	Opening balance	Receipt	Expenditure	Savings
SB A/c No. 57006547603	1,82,173	2,61,081	1,08,400	3,34,854
TSB A/c No. 799010100061374	3,60,399	2,61,469	6,00,000	21,868
Fixed Deposit	33,50,000	6,00,000	0	39,50,000

Loan/Marriage Advance for Permanent Labourers/ Clas IV Employees

Account item	Opening balance	Receipt	Expenditure	Savings
SB A/c No. 57006548255	5,54,683	9,27,464	9,50,000	5,32,147

Annual Accounts and Audit Report

The Annual Accounts of the Kerala Agricultural University for the financial year 2022-23 have been submitted to the Government on 29.09.2023 with the approval of Hon'ble Vice Chancellor.

Pending paras in Accountant General's Inspection Report

Sl. No.	Year	Para	Item
1.	2016-2021	20 para	Inspection report on the local audit of the accounts and registers of the Kerala Agricultural University, Vellanikkara, Thrissur for the period from 01.04.2016 to 31.10.2021

Para No.

Objections

- I Non implementing the orders of the government made revenue loss to KAU to the tune of Rs.4.54 Lakh
- II Appointment of Assistant professors – Extension of Period of Rank List
- III Compensation of Land acquired by Power Grid Corporation of India
- IV Non-Deduction of TDS from sitting fee as per UGC guidelines Rs.23400/-
- V Direct appointment to the post of Dean & Director – unfruitful expenditure of Rs.10.46 lakh
- VI Unauthorized absence from duty of Teaching Staff
- VII Loss due to non-revision of rent and non-recovery of GST on rent-1.91 lakh
- VIII Irregular payment of contract wages without deducting TDS – Smt. Sathyabhama Tahasildar (Retd.)
- IX Training and technology Demonstration Project or making value added products from Coconut wood
- X Non regularization of Buildings
- XI Irregular disbursement of tuition fee amount to SC students KAU High School
- XII Meagre utilization of special fee collected for the activities KAU – High School
- XIII Loss of revenue due to deduction of collection charges from KCWWF Cess
- XIV Inadmissible disbursement of higher rate of HRA, applicable to Corporation Areas (PR 2014)
- XV Non filling of sanctioned post vacancies by PSC appointments
- XVI ICAR ranking of KAU-down ranking during the course of year to year
- XVII Non realization of credit sales
- XVIII Ineligible drawal of special allowance / treasury duty allowance
- XIX Idling Agriculture equipment's/ machinery

XX Internal Control Mechanism/ Machinery

- a) Non-Maintenance of Cash book KAU High School
- b) Internal Audit Wing – non-functioning during 2016-17 to 2018-19
- c) Idling of vehicles without repair /condemnation

Audit Committee meeting conducted in KAU

The Local Fund Account Committee meeting convened on 15.06.2023 to review the objections raised in the Consolidated Audit Reports of KAU for the period from 2015-16 to 2020-21.

Debt waved off/ Income given up

Nil

Major loss incurring instance/ misappropriation detected during the report

Nil

8 - INFRASTRUCTURE

Major works completed during in the Reported Year

No.	Name of work	Expenditure (In Rs.)
1	Construction of office building at Instructional Farm, Vellanikkara (State Plan 2022-23)	43,85,825/-
2	Renovation of Eastern side pond at Main entrance and construction of compound wall at NH side at Main Campus, Vellanikkara (State Plan 20-21)	46,71,747/-
3	Construction of First Floor of Lab Complex at CoA, Ambalavayal. State Plan 22-23	72,92,205/-
4	Construction of Boys hostel at College of Agriculture, Ambalavayal (State Plan 20-21)	194,62,285/-
5	Extension of Central technological museum at KAU M.C Vellanikkara	22,61,576/-
6	Construction of Farmer's hostel at KVK Palakkad (ICAR-ATARI)	63,97,705/-
7	Construction of Trainees hostel at KVK Kottayam-(ICAR)	74,55,068/-
8	Construction of referral lab for quality control of organic manures at CoA, Vellayani-(RKVY)	85,62,617/-

Major works ongoing in the Reported Year

No	Name of work	Agreed PAC
1	Construction of second floor of ICAR Ladies Hostel at M.C Vellanikkara (ICAR-Development Grant-22-23)	64,92,924/-
2	Construction of an Academic Block at College of Agriculture, Ambalavayal (State plan- 21-22)	3,94,72,345/-
3	Construction of a building for setting up of an input production centre for multi-nutrient formulations and organic manures at RARS Pattambi (RKVY)	78,66,886/-
4	Electrification of office building at IF, Vellanikkara (State plan 2022-23)	67,61,880/-
5	Design, Construction and commisioning of slow sand filter with Aerator at Vellanikkara, Thrissur, Kerala (Annual plan 19-20)	78,50,000/-
6	Construction of Farmer's hostel at KVK Wayanad	50,78,087/-

Infrastructural assets which are unused or remaining unusable during the report year

Vehicles remaining unusable during report year

Sl. No.	Type of Vehicle
1.	Ambassador Car (KL 08 AB 4289)
2.	Maheendra Bolero (KL 08 AP 6281)
3.	Mahindra Bolero (KL 08 AQ 5412)
4.	Honda Splender (KL 08 AK 6237)
5.	Bolero Jeep (KL 08 AD 2845)
6.	Mahindra Bolero (KL 08 AE 229)
7.	Motor Bike (KL 08 AH 2172)
8.	Tractor (KL 13 M 8702)
9.	Trax cruiser (KL 08 AK 7598)
10.	Bolero Jeep (KL 08 AP 2658)
11.	Pikup (KL 08 AQ 3118)
12.	Honda Splendor (KL 8 AK 6153)
13.	Mahindra Bolero (KL 08 AQ 5414)
14.	Tractor (KL 08 D 6804)
15.	Jeep (KL 08 M 3991)
16.	Mahindra Bolero (KL 08 AQ 6678)
17.	Tavera (KL 08 AP 6234)
18.	Ambassador (KL 60 9126)
19.	Bajaj Pulsar (KL 08 Z 9499)
20.	Bullet (KRH 9814)
21.	Motor Bike (KL 08 N 7010)
22.	Motor Boat (ML Rice Motor Boat)
23.	Mahindra Jeep (KL 8 F 5896)
24.	Bus (KL 08 B 7556)
25.	Bus (KL 08 G 989)
26.	Bus (KL 08 G 654)
27.	Jeep (KL 08 J 8692)
28.	Bajaj Motor Cycle (KL 10 E 1397)
29.	Power tiller (KL 08 AS 241)
30.	Mahindra Bolero (KL 08 AQ 5401)
31.	TVS Scooty (KL 08 AE 332)

32.	Bus (KL 08 L 9132)
33.	Tractor (KL 03 E 1955)
34.	Marshal Jeep (KL 08 N 127)
35.	Tata ace (KL 20 A 6966)
36.	Aviator scooter (KL 08 AQ 3405)
37.	Mahindra Bolero (KL 08 AQ 5221)
38.	Bike (KL 12 H 8823)
39.	Scooter (KL 05 Z 7237)
40.	Honda Splendour (KL 05 Z 7238)
41.	TVS motor cycle (KL 14 B 9568)
42.	Bolero (KL 08 AD 2249)

Vehicles purchased during the report year

Sl. No.	Type of vehicle
1	Eischer Bus (KL 08 CB 7214)
2	Bolero Jeep (RC is not received)
3	Maruti Suzuki Car (RC is not received)
4	Ashok Leyland Bus (KL 08 CA 1562)
5	Toyota Innova Hycross (KL 08 CB 4346)
6	Mahindra Pickup (KL 08 CA 1099)

Vehicles disposed off during the report year

Sl. No.	Type of vehicle
1	Ambassador Car (KL 03 N 3682)
2	Mahindra Jeep (KL 08 B 4098)
3	Mahindra Jeep (KL 08 J 3999)

Equipment, machineries and other assets purchased during the report year

Sl. No.	Item	Value (in Rs.)
1	Tractor	14,98,000/-
2	Tractor	6,89,994/-

3	Gel Doc Go Gel Imaging System with Image Lab Touch Software (including UV Stain Free Tray)	6,48,500/-
4	Portable photosynthesis system	53,90,786/-
5	ANSYS Software	35,00,000/-
6	Digital Stereo Microscope	9,04,000 /-
7	GC- MS/MS	99,88,700/-
8	Next Generation sequencer	8,98,570/-
9	Stereo zoom microscope	7,23,930/-
10	Honey filling machine	5,60,500/-
11	9 KWp solar power plant	6,49,787/-
12	Tissue homogenizer	6,64,364/-
13	Constructed two rain shelters at PRS Panniyur	4,98,000 /-
14	Liquid bottling unit with automatic plastic cap sealing machine and stainless-steel tank with SS boll valve	7,49,300/-
15	Fermenter	5,55,750/-
16	Automatic Weather stations	6,13,237/-
17	Root Analyser	8,00,000/-
18	82.5 kV generator for biocontrol lab	9,30,000/-
19	High Computing System (Server for Automatic Weather Station)	30,20,800/-
20	Automatic Weather Station (4 Nos)	37,81,834/-
21	Vacuum Frying Machine	14,00,000/-
22	BIO SAFETY CABINET	595900/-
23	FERMENTOR	766941/-
24	BOD INCUBATOR	567580/-
25	GENERATOR	930000/-
26	PSM R 5000 Root Scanner	791000/-
27	Nanodrop Lite Plus Spectrophotometer	620000/-
28	Mixer Mill MM400	664364/-
29	Digital Microscope with 4K resolution camera (Leica Emspira)	999400/-
30	Soil Moisture – Soil Temperature – Leaf Temperature Monitoring	578895/-
31	Fermenter	485000/-
32	FTIR Spectrophotometer	3463300/-
33	Super critical Fluid Extraction System	7498900/-
34	Fully automated Microwave Digestion	819982/-
35	Nutribar Machine	1038400/-

Land purchased, allotted, divested during the report year

Sl.No.	Place	Extent	Remarks
1	RRS Moncompu	0.85 Ares	As per G.O(Rt) No. 4086/2023/RD dtd. 14.11.2023 Govt. have ordered acquisition of 0.85 Ares of land of MSSRRS, Moncompu in Champakulam village of Alappuzha district for increasing the width of service road at A1 side approach of Flyover No.2 (Moncompu flyover)

9 - MISCELLANEOUS

Right to Information Act

Kerala Agricultural University has appointed 83 State Public Information Officers (SPIO) and 34 Appellate Authorities during the report year, revising the earlier list. By this, the number of SPIOs increased by 4 and Appellate Authorities by 1.

Summary of Annual Report 2023-24/ Suo Moto disclosure under Section 4(1) (b)

Sl. No.	Department	No. of Public Authorities	No. of Public Authorities which published the 17 Manuals under Section 4(1)(b)	No. of Public Authorities which updated the 17 Manuals during the year	No. of Public Authorities which displayed the 17 Manuals online
(1)	(2)	(3)	(4)	(5)	(6)
1	Kerala Agricultural University	1	1	1	1

Disposal of Information Requests and Appeals During 2023-2024

Total No. of Requests (Pending at the end of last FY, and received during report year)	No. of Requests Disposed	No. of Requests Rejected	No. of Requests deemed to be Refused under Section 7(2)	Total No. of first Appeals with Appellate Authorities (Pending during the end of last FY & received during the report year)	No. of First Appeals Disposed	No. of First Appeals Rejected
(1)	(2)	(3)	(4)	(5)	(6)	(7)
448	412	31	0	25	24	1

Undisposed petitions/appeals related to KAU pending with State Information Commission (SIC)

Two appeals pertaining to KAU reported to be pending with the SIC during the end of report year. (SIC/360/2024-G1 and 760/SIC-G7/2024)

Official language

During the report year 78.68 % of files were processed in the official language, i.e; Malayalam.

Complaint redressal mechanism

Committee	No. of complaints dealt with
Internal Complaint Committee	1
SC-ST Advisory Committee	1
Anti-ragging Committee	0
Students Grievance Cell	1

Major developments

- 1) The Internal Quality Assurance Committee was reconstituted with the following composition, with mandates revised, vide order No. KAUGA/611/2023-GA-K2 dated 01/03/2024:
 - a) Vice Chancellor of the University – Chairperson
 - b) Eight senior teachers and one senior administrative official – Members
 - c) Three external experts on Quality Management/Industry/Local Committee – Members
 - d) Director of IQAC – Member Secretary
- 2) The Rice Research Station at Moncompu under Kerala Agricultural University has been renamed as M.S. Swaminathan Rice Research Station, in memory of the eminent agricultural scientist Dr. M.S. Swaminathan.
- 3) Performance Appraisal Forms in numerical grading system was introduced in KAU from the cadre of Section Officer to Registrar / Director. Following this, the performance appraisal was made applicable also to the employees ranging from Senior Grade Assistants to Assistant Section Officer of KAU.

Action u/s (8) of KAU Act

- (1) KAU Reforms Commission: Finding that special measures of improvement are needed to maintain the requisite standard of teaching/research, Government has constituted an Expert Commission Vide GO(MS)No. 41/2023/Agri dated 05.05.2023 to inquire and report on the means to revamp and modernize KAU. The Chairman of the Commission was Prof. Dr. C. Balagurusamy (Former member – UPSC and former Vice Chancellor – Anna University) and the members were Prof. Dr. P. Rajendran (Former Vice Chancellor, KAU), Prof. Dr. P V Balachandran (Former Director of Extension, KAU) and Dr. B Ashok IAS (Former Vice Chancellor of KVASU and APC & Principal Secretary to Govt.). Dr. K Aravindakshan (Former Registrar, KAU) was Special Invitee.
- (2) Review of Career Advancement Scheme promotion of KAU Teachers UGC 2010: Finance Inspection Wing, Government of Kerala submitted a report on the inspection conducted from 20.02.2018 to 24.02.2018 on the UGC 2010 Career Advancement Promotions granted to the teachers of KAU. Government accepted the recommendations of the Financial Inspection Wing, and an Expert Committee was constituted Vide GO(MS)No. 10/2023/Agri dated 21.01.2023 for examining the recommendations of the Inspection wing report. On the basis of the Expert committee report, the Government issued GO (Ms) 85 / 2023 / AGRI dated 11.09.23 directing the University to comply with the accepted recommendations of the Expert Committee and the specific recommendations mentioned in the order.

Information Technology:

- Biometric Punching: KAU has already implemented biometric punching system in its major offices. But it is to be replaced with AEBAS (Aadhar Enabled Biometric Attendance System). Steps are being taken to procure AEBAS.
- e-Office: - The Kerala Agricultural University has been on-boarded to NIC e-Office w.e.f. 15 June 2023 with the support of Kerala State IT Mission. As the first phase, it is implemented in all directorates in the University Headquarters.
- GSCORE: - The Kerala Agricultural University has been on-boarded to GSCORE (Confidential Reporting and Reviewing System) w.e.f. March 2024. GSCORE is provided by the IT Software Division, Finance Department, Government of Kerala.
- UNISPARK: - The University has been on-boarded to UNISPARK (University Service and Payroll Administrative Repository) of the Government of Kerala.
- Website: - An in-house developed FOSS multi-domain website system serving the websites of all institutions under the University is being maintained.
- Email & Productivity Tools: - An Email System on Google Workspace is being maintained. Apart from email, it includes cloud computing, productivity and collaboration tools and software. Apart from the official accounts, this service is available to officers, staff and students.
- Web Applications: - KAU is using several web applications like UFAST, UFAST, USAIM, etc. for the last several years. During the report year, Faculty Database, Recruitment portal including that for KAU School, Application Portal for students, Various modules in UFAST, UFAST, USAIM with GST etc. were developed.

Official Social Media Channels of the University:

Facebook:- <http://www.facebook.com/KeralaAgriUniversity>

Twitter:- <http://www.twitter.com/KeralaAgVarsity>

YouTube:- <https://www.youtube.com/kauindia>

Linked In:- <https://linkedin.com/company/kauin>

Instagram:- https://www.instagram.com/_u/keralaagriuty