

COLLEGE OF AGRICULTURE, VELLAYANI

2013-2023

The College of Agriculture, Vellayani was established in May 1955 and continues as the Centre of Undergraduate and Post Graduate education. The institution was set up in the palace building belonging to the royal family of erstwhile Travancore State. Within few years the College got sufficiently strengthened to claim parity with any other leading Agricultural Institution in India. Postgraduate programmes, leading to M.Sc. (Ag.) and PhD degrees were started in the college during 1962 and 1965 respectively. Simultaneous development of the College farm provided field facilities for giving adequate work experience for the B.Sc. (Ag.) course and for conducting researches of M.Sc. (Ag.) and PhD students.

When the Agricultural University was established in Kerala during 1972, the College of Agriculture, Vellayani had grown up adequately to form the major constituent of the University. With the inclusion of this institution in the Agricultural University, the agricultural education and research in the state underwent tremendous changes and development. The `trimester' system of teaching with `internal evaluation' was introduced in the University and it emerged as a novel ideal system in the field of agricultural education. Now the teaching is done under the related `semester system'.

I. Departments

1. Agronomy
2. Soil Science & Agricultural Chemistry
3. Plant Breeding & Genetics
4. Seed Science and Technology
5. Vegetable Science
6. Pomology
7. Floriculture & Landscaping
8. Agricultural Entomology
9. Nematology
10. Plant Pathology
11. Post Harvest Technology
12. Plant Biotechnology
13. Plant Physiology

- 14.Plantation Crops & Spices
- 15.Agricultural Extension
- 16.Agricultural Economics
- 17.Agricultural Statistics
- 18.Agricultural Engineering
- 19.Agricultural Microbiology
- 20.Agricultural Meteorology
- 21.Animal Husbandry
- 22.Community Science
- 23.Physical Education
- 24.Organic Agriculture

II. Learning resources:

College Library (Digital)

- The Library attached to the College of Agriculture, Vellayani was established in 1955 and serves as the central hub of teaching and learning processes of the college.

Infrastructure and organisation of library

Infrastructure	
Area	1060 m ²
Seating Capacity	100
Disable friendly	Yes
Wi-Fi connectivity	Yes
Internet connectivity	<ul style="list-style-type: none"> ○ Provide in the entire campus through LAN at a bandwidth speed of 40 mbps ○ At present 400 connections are provided from the server kept in the college library
Software used	<ul style="list-style-type: none"> ○ Integrated Library Management Software KOHA. ○ It is the first open-source integrated library system
Plagiarism checking software	> TURNITIN Software

Library timings	<ul style="list-style-type: none"> ○ 8 am to 6 pm ○ Proposed to enhance the working hours from 8 am to 8pm
Organizational Structure	
i. Circulation section	a. Property counter

	<ul style="list-style-type: none"> · Circulation counter · Stack room · Book Bank Scheme Collection - SC/ST
ii. ARIS Room	
iii. Reference section	<ul style="list-style-type: none"> · Current Periodicals · Reference Collection · Bound Volume Collection · Theses Collection
iv. Server room and video conferencing room	
Learning Resources	
Books	30686
Indian journals	12
Bound journals	5404
Theses	2014
Annual reports	150
Gifted books	2131
Book Bank Books	159
CD ROM*	1500
E-Resources /Online Resources	
CeRA	<ul style="list-style-type: none"> ○ Access to around 3300 online full text journals ○ Best Usage of “J-Gate @CeRA” Award received by KAU ○ Best resource sharing in “J-Gate@CeRA” Award received by KAU
CABI e-Books	<ul style="list-style-type: none"> ➤ Can access CABI (Centre for Agriculture and Biosciences International) e-books published from the year 2000 onwards

CAB Abstracts	➤ Access to over 12,498,000 records from the year 1910 onwards
Krishikosh	
DELNET	➤ Kerala Agricultural University has been an Institutional Member of DELNET
	➤ Access to more than 20 million bibliographic records of books, journals, articles, CDs etc
Indiaagristat	
IDEAL (Indian Digital Ensemble of Agricultural Libraries)	i) Ready platform for Agricultural libraries of Indian National Agricultural Research & Education System (NARES) ii) Procuring books and other library resources at low cost iii) KAU is a member of this IDEAL platform
Publications in the Library	iv) CD TIS (Crop wise/ Department wise Theses Information System)

Institutional Ethics Committee for Experiment on Animals

- College of Agriculture does not have any experiment conducted on animals hence ethics committee on experiment on animals is not constituted.
- However, Institutional Biosafety committee has been constituted with following organizational structure:

Institutional Biosafety committee	
Chairman	Director of Research
Convenor	Dean, Faculty of Agriculture
Member Secretary	Professor & Director Integrated Biotechnology
Member from RGCB	DBT Nominee
External expert	Scientist from CTCRI
Medical practitioner	Government Doctor

Member	Scientist from KAU
--------	--------------------

Committee for Prevention of Sexual Harassment of Women at Work Places:

- The college authorities have constituted an Internal complaint committee with member representatives from teaching faculty and administrative staff of the college.
- Dr. Jayalekshmi V. G., Professor (Plant Breeding and Genetics) is presently the chairperson of the committee.

Anti Ragging Cell

- As per the directions of Honorable Supreme Court of India and Kerala Prohibition of Ragging Act 1997 an Anti-ragging committee and an Antiragging squad has been constituted.
- The monthly reports of the anti- ragging cell are submitted by the Professor (Academic).

III. Green protocol compliance in the campus

A. Adoption of Green Technology

- College of Agriculture, Vellayani received A grade with 100 percent marks in the green audit by Suchitwa mission and Haritha Kerala mission on 22.01.2021
- Microbial Inoculant Technology for Household Waste Management developed from the Microbiology department is being adopted to degrade bio compost in the campus and by many residence associations, Offices and households of Thiruvananthapuram, Kollam and Alappuzha corporations for biowaste management.
- The Department of Soil Science & Agricultural Chemistry, College of Agriculture, Vellayani has patented fast process technology for waste treatment which could be completed within one day, “Suchitha” degrading the degradable waste for production of value added organic manure.
- Well established vermi composting Yard is there

B. Making the campus eco-friendly

- Green protocol team is established in the college for ensuring compliance of Green protocol
- Sign boards are fixed in major locations of the campus indicating green protocol compliance
- All items of disposable plastics including disposable plates and cups, plastic covers and flex boards are banned in the campus.
- Washable ceramic or steel plates, cups, and bottles are kept in the campus for functions.
- Separate bins have been provided in all blocks of the campus for collecting paper waste, food waste and plastic waste.
- Majority of employees are using steel bottles and lunch boxes.
- Many employees have been switching to electric vehicles.
- Twenty cycles have been provided for students to travel within the campus.

C. Waste Management

- Incinerators are installed in the campus and hostels to burn waste in the campus
- Small biocompost unit is established in all major blocks for composting bio degradable waste.
- The campus has separate bio composting unit established under Microbiology department using the bio inoculum developed by the Microbiology department for degrading the food
- Portable bio-gas and composting plants for green waste management, and incinerators are working in all students hostels of the college.
- E - waste Plastic and paper wastes are segregated at source and handed over to Clean Kerala Company.
- The campus has well established **Material Collection Facility** for scientifically storing the non biodegradable waste.
- Hazardous and glass waste from the laboratory are disposed through Indian Medical Association

D. Water harvesting, utilization of Solar energy, Plastic free campus

- All items of disposable plastics including disposable plates and cups ,plastic covers and flex boards are banned in the campus.
- The campus has got ten solar energy lamps.
- The campus is embraced by Kerala's second largest fresh water lake, Vellayani lake(partly owned by the college) which helps in ground water stabilisation of surrounding area.

E. Greening of campus

- The campus has paddy fields, ornamental garden, orchard, Crop museum, fodder museum, vegetable cultivation and seed production units.

IV. Classrooms & Examination halls (2013-2023)

Sl.No	Department	UG (Nos)	PG (Nos)	Additional Facilities
1	Agronomy	3	3	
2	Soil Science & Agrl. Chemistry	2	1	
3	Agrl. Entomology	2	2	
4	Nematology	1	1	
5	Plant Breeding & Genetics	1	1	PhD class room
6	Plant Physiology	1	1	
7	Agrl.Microbiology	1	1	Training hall
8	Plant Pathology	1	2	Training hall
9	Agrl. Statistics	1	1	
10	Agrl. Meteorology	1		
11	Vegetable Science	1	1	
12	Post Harvest Technology		1	
13	Plantation crops and Spices	1	2	
14	Fruit Science	0	1	
15	Agrl. Extension		2+ 1	Seminar Hall, PhD classroom, Cellar Hall
16	Plant Biotechnology	3	1	Library
17	Agrl. Economics	0	0	

18	Animal Husbandry	0	0	
19	Organic Agriculture	0	1	
	Smart classrooms	2		

Examination hall facilities

Examination hall	Area	Capacity	Facilities
1- New UG Block	195m ²	100	One table, 110 armed chairs, CC TV camera, clock, lights, and fan
2- Main Block Hall	123 m ²	100	One table, 110 armed chairs CC TV camera, clock
3- New PG Block	120 m ²	70	70 armed chairs, clock, lights, and fan

V. Physical facilities (2013-2023)

Hostel	No. of rooms	Inmates / room	Mess facility	WiFi connectivity	Drinking facility
UG men's hostel - 'Tharangam'	70	3	Separate kitchen-workers (3 nos) & dining hall (seating capacity - 100)	WiFi connection Available	Water filters-3 Water cooler-1
Ladies' 'Greeshma'	145	4	Separate kitchen-workers (10 nos) & dining hall (seating capacity-250)	WiFi connection Available	Water filters -4
PG hostel- 'Samrudha'					
PG ladies hostel	100	2	Independent kitchen – 7 workers with a common dining hall(seating capacity 100)	WiFi connection available	Aqua guards -3 cooling filter systems-2
PG Men's hostel	54	1			

VI. Sports and recreational facilities

Particulars/ facility	Space		No.	Speciality to conduct hands on training
		SPORTS		

Indoor Stadium (multipurpose-games, judo and gym)	1500 m ²		1	A physical education instructor has been posted on contract basis.
Open Playground	27600 m ²			All sports gear and equipments are available
Football court	120 m x 70m		1	
Basketball court	28m x 15m		2	
Volleyball court	18m x 9 m		3	
Badminton courts	13.40 m x 6.1m		6	
Table Tennis			2 tables	
Cricket ground	130 m x 60 m		1	
Athletics – facilities for track and field events				
	RECREATION			
Reading rooms, TV rooms, wifi facilities in hostels	Hostels			
Sports- table tennis	Available in Indoor stadium and hostel			
Judo hall, Weight Training Hall and Gymnastic Hall	Indoor stadium. Halls are 50m x 12m each and the Gym is fully established with all equipments. Remains open from 6 am in the morning			
Cafeteria	Near the administrative block. Is open on all working days from 8.30 am till 5 pm. Breakfast, tea, lunch, and snacks are available			

VII. Auditorium: The College has open stage facilities for the conduct of arts, stage programmes and important functions.

Auditorium facilities

Auditorium	Year of construction	Seating capacity
Open auditorium in quadrangle	1970s	300
Indoor stadium	1984 renovated in 2015	1000
Amphitheatre	2015-16	500

VIII. Museums:

Museums in the college provide a professionalized learning space for students. The different departments have established museums related to their areas of specialization.

Museums in the college

Sl. No.	Museum	Department	Remarks
1	Soil Museum	Department of Soil Science & Agrl Chemistry	<ul style="list-style-type: none">• Insitu profiles from the typical locations of Kerala are placed in wooden frames• A training hall is also attached• A TV screen and audio system for visiting students and public.
2	Crop Museum (Crop cafeteria)	Department of Agronomy	<ul style="list-style-type: none">• A variety of crops are maintained in the Crop Museum for students and public• A model of organic recycling technology is also maintained for demonstration.
3	Museum cum Information center:	Department of Agricultural Extension	<ul style="list-style-type: none">• Extension activities of the college is highlighted in the museum• Blow ups on recent varieties of KAU and other research highlights.• Models on homestead cultivation and related aspects are also maintained in the center.• In addition, preserved specimens on diseases of major crops are also kept.
4	Mushroom Museum	Department of Plant Pathology	<ul style="list-style-type: none">• Displays a variety of edible and nonedible mushrooms collected from different parts of the country
5	Implement Museum	Department of Agricultural Engineering	<ul style="list-style-type: none">• Different farm machineries and implements (traditional and modern) are housed
6	Medicinal Garden	Department of Plantation and Spices	<ul style="list-style-type: none">• Several indigenous medicinal plant species were maintained

IX. Faculty strength

The faculty in position as on 31.03.2023 are given below.

CoA, Vellayani

Sanctioned faculty	Appointment type	Sanctioned	Filled	Vacant
Professor	Permanent	13	5	8
Associate Professor	Permanent	31	18	13
Assistant Professor	Permanent	76	62	14
Total		120	85	35

Regional Agricultural Research Station (Southern Zone), Vellayani

Staff details	Sanctioned	Existing	Vacant
Teaching Staff	19	15	4
Non teaching staff	33	24	9
Total Staff Strength	52	39	13

Instructional Farm

Sl. No.	Sanctioned faculty	Existing	Vacant
1	5	3	2

X. Achievements

Publications during 2013-23

Publications	Numbers
Research papers	988
Proceedings and abstracts	100
Extension Literature- Popular articles	185
Practical manual	7
Others	Books : 36 Book chapters : 68 Technical bulletins: 14 ; Leaflets : 52
Radio talks	91
Trainings	77

XI. Projects handled by various departments during 2013-2023

Department	State Plan		EAPs		Other funding agencies		Total	
	Number	Budget (in lakhs)	Number	Budget (in lakhs)	Number	Budget (in lakhs)	Number	Budget
Agronomy	32	524.7	10	273.7	0	0	42	798.4
Soil Science & Agri. Chemistry		310		360				
Agri. Entomology	8	387	107	4035	3	36.43	118	4458
Nematology	1	6						
Plant Breeding & Genetics	35	111.26	6	198.87	1	33.95	42	344.08
Plant Physiology	9	101.5	6	122.305	0	0	15	223.805

Ag. Microbiology	6	330.9	3	160.9	0	0	9	491.8
Plant Pathology	9	223.98	6	235.17	0	0	15	459.15
Agri. Meteorology	2	10	1	120	0		3	130
Vegetable Science	14	74.5	4	249.19			18	323.69
Post Harvest Technology	11	65	2	109	1	99.85	14	273.85
Plantation crops and Spices	6	22.3	3	36.98			9	59.28
Pomology & Floriculture	1	22.7						
Fruit Science	1	3.25					1	3.25
Floriculture & Landscaping	2	7.5						
Agri. Extension	12	41.8	7	84.9			19	126.8
Plant Biotechnology	5	17.75	4	263.3	0	0	9	281
Community Science	9	112.5	2	67	2	2.3		
Animal Husbandry	0		0		0		0	
Instructional Farm		11			1	5	7	16
Organic Agriculture	1	10	0	0	0	10	1	10
Seed Science	3	32.2	3	392.95			6	425.15
TOTAL	167 nos.	2105 lakhs	164 nos.	6349 lakhs	7 nos.	183 lakhs	321 nos.	8408 lakhs

XII. Patents granted/published during 2013-2023

Department	Patent granted/published
Agronomy	2 seed cum fertilizer drill and wheel hoe weeder
Soil Science & Agri.Chemistry	1 Thermochemical organic fertilizer Suchitha

XIII. New varieties released/Technology developed during 2013-2023

Varieties	Technology	POP recommendations	Technology transfer
8	Wheel hoe weeder and Seed cum fertilizer drill - 2 nos	9	15

XIV. Laboratories, Farm, Workshops, Dairy Plant, Veterinary Clinic, Hatchery, Ponds etc.

i) Laboratories

- All the departments are supported with fully functional laboratories as per the requirements of the course curriculum.
- The **Central Instrumentation Laboratory**, Leaf Tissue Laboratory, Molecular biology laboratory, **Pesticide Residue Laboratory** with NABL accreditation (ISO: 1720252005), **Plant Virus Indexing laboratory**, Processing lab registered under FSS Act and with FSSAI license, Mushroom laboratory, **Bio-control Lab**, Centre for Microbial Technology etc. in the college facilitate its teaching and research activities.
- The **Meteorological Observatory** and Automatic weather station attached to the Dept. of Ag. Meteorology serves as reference for weather studies and provides agro advisory services to the farmers.

Laboratory and attached facilities in the Departments to conduct practical hands on training

Department	UG (Nos)	PG (Nos)	Additional Facilities
Agronomy		1	Leaf Tissue lab
Soil Science & Agrl.Chemistry	2	2	Model Organic farm, Referral lab for organic manures, Soil Museum, Stationary Soil Testing Lab, Mobile Soil Testing Lab, Suchitha waste conversion system

Agri. Entomology	2	2	1 Biocontrol Lab, 1 Insectory Lab, 1 Storage room, 1 PRRAL 1 quality testing lab for honey
Nematology	1	3	Soil Washing lab, glass house, net house
Plant Breeding & Genetics	1	1	Tissue culture lab, Molecular Lab, Computer lab
Plant Physiology	1	2	Rain out shelter 50 m ² , tissue culture lab, plant physiology lab, polyhouse -200 m ² (1), OTC
Ag. Microbiology	1	2	Glass house, Instrumentation room, Bioinoculant production unit, Cyanobacteria lab
Plant Pathology	1	3	Protein lab., Molecular lab., Advanced Research Centre for Plant Diseases Diagnostics, Insect proof glass house
Agri. Statistics	1	1	Computer lab
Ag. Meteorology	1		Agromet observatory, Automatic weather station
Vegetable Science	1	1	Seed lab, Seed production field, Seed processing building, Seed processing yard, Polyhouse, Mist chamber, Net house, Rain shelter (2), Healing chamber
Post Harvest Technology		1	Techno incubation centre, Centre for formulation of convenient food
Plantation crops and Spices	1	1	Medicinal Garden, rainshelter (2), Hi-tech-polyhouse (100 m.sq.) (1), clove germplasm, tissue culture lab
Fruit Science	0	1	Orchard of HDP of mango (2 acres)
Floriculture & Landscaping		2	College Garden, Polyhouse, Shade house, Fernery
Agri. Extension		1	Video conferencing hall, Heritage museum, Roof top Garden
Plant Biotechnology	2	2	Plant tissue culture laboratory, Animal cell culture laboratory, Hardening mist chamber, washing rooms (2)
Community Science		3	incubation centre, Nutrition Lab, Food Science lab
Seed Science		2	seed science lab and molecular lab

Organic Agriculture	1		Model Organic Farm (State Plan Project), Organic Museum, Demonstration units , Training Hall and Storing facilities (Old Quarters)
Animal Husbandry	1	-	Cattle shed Goat shed Poultry shed
Physical Education	-	-	Indoor Stadium (fully equipped) Main Stadium (track and game events)
Instructional Farm			Sales counter Store & temporary shed at Sales counter Fertilizer store Farm machinery & implements store Mushroom house Labourers' recreation hall Coconut seed store HD potting shed Seed processing yard Pump houses

XV.Student Development

- College of Agriculture, Vellayani offers B.Sc. (Hons.) in Agriculture, PG and Ph.D. degrees in Agriculture, Horticulture, Food Science and Nutrition and Agrl. Statistics.
- The student strength for B.Sc. Hons. (Ag.) is 175 and that in PG and Ph.D. varies with the discipline.
- The student community that seeks admission in the college include candidates from Kerala and from other parts of India, the latter mostly through ICAR quota.
- Four year B.Tech Biotechnology and two year Diploma in Organic Agriculture are the other courses offered from the college.

A. Student Intake and Attrition:

Year	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23
	UG									
Intake	154	162	147	148	139	210	208	246	247	245
Attrition	19	24	2	3	8	6	6	9	5	1
	PG									
Intake	44	75	73	77	102	104	130	104	101	102
Attrition	0	4	2	2	0	1	1	6	1	0
	PhD									
Intake	19	21	23	17	25	39	57	47	45	50
Attrition	1	0	1	0	2	4	4	4	1	3

B. Student performance

Exam qualified	No. of students
ARS	2
NET	240
SRF	30
JRF	63
GATE	22
Civil Service- IFS	1

C. Scholarship/ Fellowship

Exam qualified	No. of students
ICAR National Talent Scholarship	28
Inspire fellowship	11
UGC-NF OBC	3
JNMF	3
KSCSTE scholarship	2
UGC Single girl child fellowship	2
CSIR-Fellowship	1
Bayer MEDHA fellowship	1
Maulana Azad National Fellowship	1
UGC-Moulana Azad National Fellowship for Minority students	1
Full bright scholarship	1

Prime ministers fellowship	1
Mahajyoti (MJPRF) fellowship	1

D. Awards

Awards	Number
Best paper awards	6
Best oral presentation	5
Best Poster Awards	4
Young scientist award	2
Dr PKR Nair Best thesis award	1
Dr Banyal memorial best paper award	1
Best research scholar award	1
Best publication award by Society for advancement of human and nature	1

E. Placement Cell Activities

1	23 Jan 2019.	Facilitated students to participate in online campus recruitment process 2018- 19 of Federal Bank for the post of Agri- development officer in junior management grade I for specialist role
2	May 2019	Resume from interested students has been collected and submitted for selection for Farm supervisors to Oman and Farm managers in Canada
3	2019	Facilitated students to register in State Job Portal of Kerala Academy for Skills Excellence, Government of Kerala
4	29 July 2019	Campus recruitment for the post of Territorial Manager for AMUL (GCCF Ltd), India, was conducted (Sri Alan Jolly Sebastian has been selected from 13 candidates)
5	29 Aug 2019	Campus interview in collaboration with IFFCO KISSAN for the post of Farm Tele Advisors was conducted at College of Agriculture, Vellayani. (Two candidates were placed as Farm Tele Advisors based on the tests among 45 candidates)
6	Oct 2019	Mondelez International ,Mondelez House, 22nd Floor, Tower 3 (Wing C), Mumbai 400013 Maharashtra, India has selected Sri Amal Jose MSc Student in Department of Agronomy as Technical Executive (Cocoa) with annual package above 4 lakh/ annum through selection process aided by placement cell

7	26 Nov 2019.	Facilitated students to participate in online campus recruitment process 2019- 20 of Federal Bank for the post of Agri development officer in junior management grade I for specialist role
8	1 Jan 2020	An Orientation programme in collaboration with Sankar IAS Academy regarding competitive exams including UPSC exams was conducted for students
9	27 Jan 2020 to present	Coordinated JRF Orientation Programme launched in the campus where in seven groups based on the JRF exam pattern were formed and regular orientation were given to final semester students with the help of faculty and senior students.
10	28 Feb 2020	Coordinated the conductance of class on Civil Service Coaching by Ms.Arya.M.Nair, IPoS Trainee, 2019, by Placement Cell in association with Student's Union
11	16-09-2020, 01-10-2020, 08-10-2020, 13-10-2020, 19-10-2020, 23-10-2020, 28-10-2020, 04-11-2020, 07-11-2020, 14-11-2020, 21-11-2020	Actively participated in the career guidanceoriented webinars organized by the Department of Extension
12	Jan 2021	Facilitated students for the recruitment for the post of Marketing Executive at ESAF Cooperative
13	04-02-2021 to present	Coordinating activities of Orientation Programme for forthcoming Agricultural Officers Selection by PSC
14	Feb 2021	Facilitated students for the recruitment in IDBI Bank
15	Feb 2021	Facilitated students for the recruitment to the post of Farm Tele advisor at IFFCO Kisan Sanchar Ltd
16	Feb 2021	Facilitated students for the recruitment to the post of Management Trainee (Assistant Manager) at NCDEX e Markets Ltd (NeML)
17	May 2021	Facilitated students for recruitment to the post of Field inspectors in One Cert International, Rajasthan
18	June 2021	Facilitated students for recruitment to Bharath Agro Processing and Marketing Cooperative limited
19	June 2021	Facilitated students for the recruitment to the post of sales trainee at Syngenta
20	June 2021	Facilitated students for the recruitment to the post of officer in junior management grade 1 at Federal bank
21	Jun 2021	Facilitated students for the recruitment to the post of Sales Trainee at Syngenta Ltd
22	Nov 2021	Facilitated students for the recruitment to the post of Technical executive at Mondelez Cocoa Operations

23	13 November 2021	An interactive session regarding CAT cracking was organized for students with experts from NAARM
24	Dec 2021	An Orientation programme in collaboration with SBW Berlin and GIZ India regarding abroad scholarships and opportunities was conducted for students
25	07 Jan 2022	An Orientation programme regarding CAT cracking was organized for students with Placement officer IIM, Indore
26	15 Jan 2022	Organised and moderated session Group discussion – Farm bill with expert from MANAGE, Hyderabad
27	30 Jan 2022	An Orientation programme regarding Career opportunities for students was organized
28	9 Feb 2022	An Orientation programme by Mr. Reghu, IRS, Deputy Commissioner of Income Tax, New Delhi regarding Orientation to Civil Service examinations was conducted for students
29	Feb 2022	Facilitated students to participate in campus recruitment process of Federal Bank for the post of officer in junior management grade I
30	Feb 2022	Facilitated students to prepare and apply for Combined higher secondary level examination of Staff selection commission
31	5 Feb 2022	Facilitated students to attend the career webinar coordinated by University Employment Information & guidance Bureau, Mannuthy
32	March 2022	Mentoring done for students secured admission in Hohenheim University, Germany
33	April 2022	Facilitated students for the recruitment to the post of Probationary officer at South Indian Bank
34	May 2022	Facilitated students for the recruitment to the post of Associate (Clerical cadre) at Federal Bank
35	May 2022	Mentoring done for students with the help faculty from IIM, Indore and the students secured admission in MANAGE and IIM, Ahmedabad, IIM Hyderabad, IRMA Gujarat
36	May 2022	Facilitated students for the recruitment for the post of Technician at IARI
37	Nov 2022	Five students from COA, Vellayani- Lijoy Robert, Milka Susan K B, Aparna P K, Bharath Chandran A P, Blesson B Varghese were shortlisted in the selection process by Federal Bank
38	Jan 2023	Three students were selected as part of the ADANI- CAS campus hiring process for the post of Executive- Horticulture (O2) in Thiruvananthapuram airport, CSMIA and AGPPL Gangavaram- Annual remuneration 7.75 lakhs

XVI. NCC/NSS/RVC Units

NAVAL NCC UNIT

CoA has been allotted one Senior Division Naval Wing unit on 26th November 2021 with a total strength of 50 cadets. NAVY NCC unit functions under 1(K) Navy NCC Unit, Aakulam, Thiruvananthapuram.

	Senior Division (Male Cadets)	Senior wing (Female cadets)	Total strength
First year	5	8	13
Second Year	15	9	24
Total	20	17	37

- The National Service Scheme (NSS) is operational in the college with a faculty as staff advisor.
- The National Service Scheme has two units in the college and the entire under graduate students are enrolled as volunteers.
- The volunteers actively engage in food security and environmental protection programmes including tree planting which a major objective is set out by the National Service Scheme at the national level.

Language Laboratory:

- A new course, Engl 1101- Comprehension and Communication skills in English (0+1) has been introduced in the syllabus of B.Sc. (Hons.) Agriculture programme from 2016 admission onwards.
- A qualified postgraduate teacher (M.A in English with NET) is presently employed who ensures a live delivery of language concepts in the classroom sessions.
- Computer Assisted Language Laboratory (CALL) and multimedia Hi-Tech Language Laboratory are presently available in the Media Lab attached to the Dept. of Agricultural Extension
- Speakers Club conducts essay and writing competitions

Cultural Center

- Arts festival and other cultural programmes were organized every year at college and university level as a student union activity
- Regular Talent Development programmes are organized and cultural development opportunities with gender concerns are provided within the colleges and also along with local communities at village levels.

- Cultural education through arts, sports and literary clubs are ensured, extracurricular education is a focus, which facilitates culturally rich learning and living environment for student development.
- The cultural center in the college is located in the PG Academic Block.

XVII. Instructional Farm

Facilities in the Instructional Farm :

Sl.No	Facility	Numbers	Area m ²
1	Office building	1	450
2	Sales counter	1	110
3	Store & temporary shed at Sales counter	1	54
4	Fertilizer store	1	128
5	Farm machinery & implements store	1	306
6	Mushroom house	1	86
7	Coconut store	1	342
8	Coconut seed store	1	16
9	Coconut seed store	1	63
10	HD potting shed	1	140
11	Seed processing yard	1	110
12	Seed Store (vegetables)	1	100
13	Pump houses	4	30 (each)
14	Value addition Centre	1	800
15	Mushroom Lab	1	500
16	Fruit fly trap preparation unit	1	60
17	Input store	1	60
18	Technician Centre	1	60
19	Labourers' recreation hall	1	143
20	Farm machinery/ equipment		

i.	Farm tractors	2	
ii.	Power tillers	2	
iii.	Mini tillers	2	
iv.	Inter-cultivator	1	
v.	Brush cutters	4	
vi.	Chain saw	1	
vii.	Thresher	1	
viii.	Winnower	2	
ix.	Walk-in-cooler for the storage of vegetable seeds (10ft x 10 ft.)	1	
x.	Others Sprayers – knapsack, power, rocker, backpack Knives, spades, hoes, sickles Garden equipments & tools		

Green house, glass house, poly house structures in Instructional farm

Department	Type of facility	Area(sq.m)
Instructional Farm	• Green houses with automatic micro irrigation	288 90
	• Hardening chamber for tissue culture plants	240
	• Poly houses / Shade houses	108
	• Mist chambers	300
	• Shade house (renovated)	1000
	• Rain shelter	320
	• Naturally ventilated poly house	

- ✓ A centralized sales cum information centre is located at the entrance of the college. It serves as the common outlet for the marketing of all farm produce and products from the college.

Revenue generation and other details regarding Instructional farm

Revenue generation in Instructional Farm	
Seeds and planting material production	
Organic inputs	
Veggie wash	
Secondary micronutrient mixtures	
Value added products of banana, coconut and cassava (Value addition Centre)	
Ponds	<ul style="list-style-type: none"> • The farm ponds in the college campus are suited for fish rearing • The two ponds in Block C, each of 40m x 20m are stocked with fish (rohu, mrigal and catla) in rotation. • Ambal or water lilly in 20m x 20m pond adds to the aesthetic value of the campus. • In addition, eight ponds each of 10m x 5m and 1-2 m depth are available for fish rearing.

Model Organic Farming units

- Under the RKVY Project ‘Establishment of the Lead Centre for Organic Farming of Kerala Agricultural University at Vellayani’
- Two primarily certified model organic farms

Model Organic Farm Location	Area (in ha)
Dept of Soil Science & Agrl.Chemistry	1.5
Dept. of Agronomy	1

Integrated Farming System model

- A teaching cum demonstration model of Integrated Farming System (IFS) unit is maintained in an area of 5000m².
- The major components are crops (banana, vegetables), duck and fish.

- It is unique in that there is a natural cleaning and aeration mechanism from the nearby spring (water channel).
- It was established and maintained by the Department of Agronomy and managed by the Instructional Farm from 2018 onwards.

Livestock farm and Poultry unit

Functioning under:	Department of Animal Husbandry
Purpose:	To impart training to B.Sc. (Hons.) Ag and Diploma students.
Poultry	180 m ²
Livestock farms	216 m ²
Dairy farm	<ul style="list-style-type: none"> • mainly cross bred variety dairy breeds of: • Holstein Friesian • Sunandhini • Jersey • The smallest notified breed Vechur
Goat and Sheep farm	<ul style="list-style-type: none"> • Malabari • Jamunapari
Poultry unit	<ul style="list-style-type: none"> • Gramasree • Naked neck breeds • Karthika

Engineering Workshops

Area	110m ²
Facilities	<ul style="list-style-type: none"> • Tools/ equipments for farm mechanization, repair and other engineering works • Facilities for the project works of PG, Ph.D students in the institution.
Tools and machinery	

<ul style="list-style-type: none"> • drilling machine • grinding machine • cutting device • power saw 	<ul style="list-style-type: none"> • powered circular saw • band saw • power hacksaw • welding machine 	<ul style="list-style-type: none"> • lathe • power plane • Carpentry, black smithy and machine tools
---	--	---

XVIII. Suggestions

Improving Research, Education, Extension activities

- Re-fixing faculty strength and technical staff and filling up of the post.
- Strengthening Faculty Development programmes including international exposure.
- Increasing international collaborations in research and education
- Facilitation centre for publications and funding for open access publication
- Enhancing grants for student/faculty research/ academic and student welfare activities and provision for a lump sum amount for meeting emergency situations
- Strengthening periodic evaluation of student and faculty research
- Strengthening library facilities and e-repository
- Easing purchase and procurement procedure with the help of information technology
- Strengthening academic management system and online monitoring
- Enhancing student capability through industrial collaborations
- Regular campus recruitment programme/events
- Enhancement of infrastructural facility with more smart class rooms, laboratories, hostels, incubation facilities, auditorium, sports facilities, and other student amenities.
- Green energy initiatives, clean campus, alternative energy resources
- Statute modification in line with new educational policy and report on higher education in its true spirit

- Enhancing involvement of students in the production of quality planting materials with revenue sharing basis
- Introducing traceability systems and online marketing
- Realignment of fee structure of courses

Exam Reforms

1. A scientific grading system based on predetermined descriptors.
2. A well spaced plan should be developed and to be intimated to students at the start of the semester about the dates of exams.
3. A transparency mechanism is required for bringing in uniformity in internal exam.
4. The burden of too much clerical work put on teachers are severely impacting the quality of academics. An online management system with computer skilled staff can solve this.
5. Massive investment is needed for developing smart examination facilities.
6. The repository of learning materials should be enhanced and available to all.
7. Assessment criteria may extended with communication, teamwork, understanding ethics, bringing in professionalism, understanding societal context, global developments, knowledge on contemporary issues etc.
8. In order to improve the examination system, teacher student ratio must be improved and programmes for skill development of teachers to be put forth
9. Exam reforms should be socially inclusive and accessible to resource poor students.