

# **ANNEXURES**

## ANNEXURES

### Annexure A1- Nil

### Annexure A2 - Number of students got admission in Master's Program during 2018 through ICAR entrance examination

Sl.No.	Number of students got admission in Masters program in 2018	Total number of UG students passed out in 2018	Percentage (%)
1	4	321	1.25

### List of the students

Sl. No.	Name of student
1.	Anila P.
2.	Riyola George
3.	Vinayaka Lamani
4.	Wayoolang Talang

### Annexure A3

SI No.	Number of students got ICAR- JRF/SRFs in 2018	Total number of Masters students passed out in 2018	Percentage(%)
	Nil	181	Nil

### Annexure A4

SI No.	Number of students got admission in Ph.D. in 2018 through ICAR entrance	Total number of Masters students passed out in 2018	Percentage (%)
	1	181	0.55

### List of the students got admission in Ph.D. in 2018 through ICAR entrance exam

SI No.	Name of the student
1	Sreelekshmi.C (2016-11-071)

### Annexure A5 - Nil

### Annexure A6

SI No.	Number of students got ARS in the disciplines offered by the university in 2018	Total number of seats available in such disciplines advertised by ASRB	Percentage (%)
1	5	20	25

### List of the students got ARS selections

SI No.	Name of the student	ARS Discipline
1	NamithaM.R.(2011-02-028)	Land and Water Management Engineering
2	Sheeja P.S.(2009-02-035)	Land and Water Management Engineering
3	Blessy V.A.(2011-02-014)	Land and Water Management Engineering
4	Hima John (2009-02-013)	Agri Structure & Process Engineering
5	Pravitha.M (2008-02-022)	Agri Structure & Process Engineering

**Annexure A7**

SI No.	Number of students qualified NET in the disciplines of agriculture and allied sciences	Total number of PG and PhD students	Percentage (%)
	101	220	50.5

**List of the students qualified NET**

Sl.No	Name of Students	Discipline
1	Stella Doncy P.P	Plant Pathology
2	Laya P/ K	Plant Pathology
3	RahilaBeevi M.H.	Plant Pathology
4	Amjath Krishnan	Physiology
5	Shibana S,N.	Plantation Crops
6	Sreelakshmi S.	Plantation Crops
7	Priya Philip	Floriculture
8	Ramzeena K.	Olericulture
9	Aruna S.	Olericulture
10	Megha I.M.	Plant Breeding
11	Anseera T.P.	Agrl. Extension
12	Anitrosa Innocent	Agronomy
13	Nayana V.R.	Agronomy
14	AthiraRaveendran	Agrl. Meteorolgy
15	Nisha Paul	Soil Science &Agrl. Chemistry
16	Rose Mary	Agroforestry
17	Reshma M Raj	Agroforestry
18	Sreejith M. M.	Agroforestry
19	Abhijith R	Agroforestry
20	Dipti	Agroforestry
21	Anjana C.B.	Agroforestry
22	Honey Bhatt	Agroforestry
23	Sreekumar E.R.	Agroforestry
24	Vijayalakshmi K.P.	Agroforestry
25	Anees Ahmed	Agroforestry
26	Jeeshma V.J.	Agroforestry
27	Arjun Ramachandran	Agroforestry
28	Bill Nelson Paul	Environmental Sciences
29	Vishnu H Das	Environmental Sciences
30	Abhi Jamatia	Environmental Sciences
31	Chitra P	Environmental Sciences
32	Niranjana Chandran	CCBM
33	ShaheenathSuhana K.K	Soil & Water Engineering
34	Sheeja P.S.	Soil Water Engineering
35	Ajay Gokul	Soil Water Engineering
56	Manasa	Soil Water Engineering
37	Anjali C. Sunny	Soil Water Engineering
38	Sariga S.	Agrl Processing & Food Engineering
39	Dilip Sen	Agrl Processing & Food Engineering
40	Ashitha V.N.	Agrl Processing & Food Engineering
41	Aswathy M.S.	Agrl Processing & Food Engineering

42	Deepak Khatwakar	FPMS
43	Thouseem N.	Plant Breeding & Genetics
44	Shahiba A M	Plant Breeding & Genetics
45	Arunjith.P	Agronomy
46	Limisha N.P	Agronomy
47	Anitrosa Innazent	Agronomy
48	Mubeena .P	Agronomy
49	Daly George	Agronomy
50	Shruthy A.T	Agronomy
51	Ajmal Fayiquec	Agronomy
52	Nasreen. V	Agronomy
53	Nysanth.N.S	Microbiology
54	MerinElza George	Vegetable Science
55	NithishBabu.M	Agri. Extension
56	DhanushaBalakrishnan	Agri. Extension
57	Preethu K. Paul	Agri. Extension
58	ShahlasBinth T	Agri. Extension
59	Aparna K P	Plant Pathology
60	Brinda G B	Plant Pathology
61	Ananthu N	Plant Pathology
62	G V N S Madhu Kiran	Plant Pathology
63	Amrutha P	Plant Pathology
64	Elizabeth T Jojy	Plant Pathology
65	Lakshmi G. Ajay	Plant Physiology
66	Reshma Mohan	Plant Physiology
67	Rahul Gupta	Plant Physiology
68	GayathriRajasekharan	Plant Physiology
69	Manasa R	Plant Physiology
70	WaghYogeshSahebrao	Plant Physiology
71	Anaswara. S.J	Pomology
72	DivyaHari	Pomology
73	Gana K.R	Post Harvest Technology
74	NihalaJabin	SS &AC
75	Greeshma S.	SS &AC
76	Amrutha S. Ajayan	SS &AC
77	Ebimol N.L	SS &AC
78	Bincy B	SS &AC
79	Thamileresi N	Agri. Entomology
80	Mridul Vinod P	Agri. Entomology
81	Jasmi Y	Agri. Entomology
82	Remya, S.	Agri. Entomology
83	Binseena, S.R.	Agri. Entomology
84	JangamHampaiah	Agri. Entomology
85	Banka Kanda Kishore Reddy	Agri. Entomology
86	Faseeh, P.	Agri. Entomology
87	Shobha, Y.B.	Agri. Entomology
88	Nimisha A. M	Agri. Entomology
89	VarshaVijayan	Agri. Entomology
90	Chinchu P. Babu	Agri. Entomology

91	Liz J. Mampallil	Agri. Entomology
92	Archana N.H.	Agri. Entomology
93	Muhammed Jaslam P. K,	Agri. Statistics
94	Muhsina A.	Agri. Statistics
95	Arya V. Chandran,	Agri. Statistics
96	Vishnu B.R	Agri. Statistics
97	Athulya S. Nair	Plantation crops & Spices
98	Sandra Merin Mathew	Plantation crops & Spices
99	Aparna K.	Plantation crops & Spices
100	Avinash M	Plantation crops & Spices
101	Farhana C	Plantation crops & Spices

**Annexure A8: Attached separately**

**Annexure A9:**

Sl No.	Number of students admitted from overseas for Ph.D during 2018	Marks
1	2	1
<b>List of the students got admitted from overseas for Ph. D during 2018</b>		
Sl No.	Name of the student	Country
1.	Salisu Ahmed Dambazau (2018-21-001)	Nigeria
2.	Thatayaone Malikongwa (2018-22-011)	Botswana

**Annexure A10**

<p><b>A10. National and International awards (such as those conferred by the National Organizations like ICAR, CSIR, DBT, DST, Government of India, international Bodies of repute like FAO, UN, CG Centres and Recognized National Sciences /Engineering Academies) (earned by Faculty) in 2018 (List with only top 10 awards to be enclosed as Annexure A10) (Maximum 3 marks)</b></p>		
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Sl. No.	Name	Honors/awards
1.	Dr. P. Indira Devi	Prof. Ramesh Chand Agarwal Award of the Indian Society of Agricultural Economics (2018)
2	Dr. Sudheer K.P.	Commendation Medal Award for the year 2018 by the Indian Society of Agricultural Engineers
3	Dr.Haseena Bhaskar	Best oral presentation award for research paper in the "1 <sup>st</sup> International Conference on Biological Control

		Approaches and Applications held during September 27-29, 2018 at Bengaluru
4	Dr. Gavas Ragesh	<b>Best Oral Presentation Award</b> for his research work entitled “First Record of <i>Macrochenusisabellinus</i> Aurivillius, 1920 (Coleoptera: Cerambycidae) as a xylophagous and phytophagous pest of Jackfruit ( <i>Artocarpusheterophyllus</i> Lam.) and its biology” in the 3 days 2 <sup>nd</sup> International Conference on “ <b>Research Interventions and Advancements in Life science (RIAL, 2018)</b> which was held from August 1-3, 2018 at Pune, Maharashtra.
5	Dr. Gavas Ragesh	“Excellence in Plant Protection Science – 2018” in the 3 days 2 <sup>nd</sup> International Conference on “ <b>Research Interventions and Advancements in Life science (RIAL, 2018)</b> which was held on August 1-3, 2018 at Pune, Maharashtra.
6	Dr. B. Ajithkumar	Best Paper Award in Oral Presentation in the International Symposium on Advances in Agrometeorology for Managing Climate Risks of Farmers (INAGMET-2019) held at JNU, New Delhi during 11-13, February, 2019.
7	Dr. Ajith.P.M	Achiever award and life membership by Society for Advancement of Human and Nature (SADHNA) 2018

#### Annexure A 11

<b>A11. Best Institution/University Awarded by ICAR in 2018 in any field</b> (Proof to be enclosed as Annexure A11) (Maximum 1 mark)	<b>3 awards</b>
1. Best AICRPs Centre Award (AICRP on Spices) – 2017 – 18: Pepper Research Station, Panniyur, Kannur	
2. Best AICRP Award (AICRP on Medicinal and Aromatic Plants and Betel Vine) 2017 – 18	
3. The IPR cell of KAU received National Intellectual Property Award 2018 (special citation) for best facilitation of GI and promotion of Registered GI in the country, from Ministry of Commerce and Industry, Government of India	

#### Annexure A 12

<b>A12. Award in All India Youth Festival or All India Agri university sports meet in 2018</b> (Maximum 1 mark)	<b>2 awards</b>
1. Second price in All India Inter Agricultural Youth Festival Gopika Sathees (2016-41-423) Muhammed Hilal K.S (2016-41-439) Clara Antony (2017-45-018)	

Ashiq Mohammed P.A (2015-45-027) Cisil. C. Poulouse (2017-51-005) Azhar Ali A (2018-17-008)	
2. Third place in shuttle Badminton (men)- Arvind Mehara (2015-45-031) Muhamed Fais (2016-47-002) Deepak I.P (2017-45-005) Vaishnav S (2016-41-198) Ankith Anilkumar (2018-02-007)	

### Annexure A 13

<b>A13. Fellowship or Associateship of National Science Academies (Maximum 2 marks)</b>	<b>2 nos</b>
Dr. Sudheer K.P- ICAR National Fellow Dr. Deepu Mathew – Associateship of NAAS	

### Annexure A14

SI No	Number of faculty with Ph.D. degrees obtained from universities from outside of the state where employed	Total Number of faculty	Percentage
	117	400	29.25%

### Annexure A15

#### Percentage of faculty from the state other than the state in which university situated

SI No	Number of faculty from the state other than the state in which university situated	Total Number of faculty	Percentage
	17	400	4.8%

SI No	Name of faculty
1	Dr. Surendra Gopal
2	Dr. Senthil Kumar
3	Sri. Paul Lazaurus
4	Smt. Viji M.M.
5	Dr. G V Sudarasana Rao
6	Dr. Manikandan
7	Dr. R. Ilangovan
8	Dr. K. Karthikeyan
9	Dr. B. Shanmugasundaran
10	Dr. S M Purushothaman
11	Dr. Israel Thomas M
12	Dr. N. V. Radhakrishnan
13	Dr. G. S. Arularasan
14	Dr. Sasikanth

15	Dr. M. Surendran
16	Dr. Murugan
17	Dr.S.Helen



**Annexure A16.**

**Percentage of faculty with 3 months or more of Post-doctoral/visiting scientist experience abroad in 2018.**

SI No	Faculty with 3 months or more of Post-doctoral/visiting scientist experience abroad in 2018	Total Number of faculty	Percentage
	1	400	0.25%
	Dr. Rose Mary Francis Professor, Plant Breeding and Genetics		

**Annexure A17: Average Footfall in Library**

Name of College/ Library	Total No. during 2018
Central Library	23758
College of Agriculture, Vellayani	29487
College of Horticulture	19480
College of Forestry *	5955
College of Co Operation and Banking*	13500
College of Agriculture, Padanakkad*	6375
KCEAT*	3750
RARSPattambi*	350
<b>Total</b>	<b>SUM(ABOVE)</b>

**Annexure A18: CeRA Utilization**

CeRA utilization in 2018 - 111793 (**Proof A 18** attached)

**Annexure A19: Accreditation as on 1-1-2018**

**Proof A 19** Attached separately

**Annexure A20: Implementation of Recommendation of Fifth Dean's Committee**

**Proof A 20** attached separately

**Annexure B1: Research Articles**

Sl. No.	Total number of research articles having NAAS rating of over 6.0 published in 2018	Total number of faculty	Number of research paper per faculty
1	39	400	.0975

**List of research articles**

Sl. No.	Details of publication	NAAS rating
1.	Alex, S., Saira, A., and Nair, D.S. 2018. Bioethanol production from watermelon rind by fermentation using <i>Saccharomyces cerevisiae</i> and <i>Zymomonasmobilis</i> . <i>Indian J. Biotechnol.</i> 16(4): 663-666.	6.37
2.	Anju. B. Raj, Sheeja K. Raj, Prathapan, K. and Radhakrishnan N. V. 2018. Nutripriming with zinc sulphate and borax for early growth and seedling vigour in grain cowpea [ <i>Vigna unguiculata</i> (L.) Walp]. <i>Legume Research</i> , LR-4099 (1-5). Doi10.18805/LR-4099	6.23

3.	Archana, P.R.,Sejian, V., Ruban, W., Bagath, M., Krishnan, G, Aleena, J., Manjunatha Reddy, G.B., Beena, V and Bhatta, R., 2018, Comparative assessment of heat stress induced changes in carcass traits, plasma leptin profile and skeletal muscle myostatin and HSP70 gene expression patterns between indigenous Osmanabadi and Salem Black goat breeds. <i>Meat Science</i> , 141: 66-80	8.82
4.	Bini Sam, HameedaBinduVahab and S Regeena.Assessment of ergonomic Annexures of coconut climbing devices for women. <i>Current Science</i> , 116 (1): 127-133	6.88
5.	Charan, S.M., Gomez, S., Sheela, K.B., Joseph, P.M. and Sruthi, C.V., 2018. Quality characteristics and antioxidant activity of passion fruit ( <i>Passifloraedulis</i> Sims.) accessions. <i>Indian J. Hort.</i> 75(2): 185-190.	6.15
6.	Chubicka, T., Girija, D., Deepa, K., SasidharanSalini, Nair Meera, AchuthanChathrattilRaghavamenon, Divya, M. K., and Babu T. D. 2018, A parasporin from <i>Bacillus thuringiensis</i> native to Peninsular India induces apoptosis in cancer cells through intrinsic pathway. <i>J. Biosci.</i> 43: 407–416.	7.53
7.	Ishrath, P. K. and Thomas, U. C. 2018. Effect of cutting intervals and additives on quality silage production from hybrid napier. <i>Range Manag. Agrofor.</i> 39(2): 307-312.	6.64
8.	Jayashree, R., Nazeem, P.A., Rekha, K., SreelathaS., Thulaseedharan, A., Krishnakumar, R., Kala, R.G., Vineetha, M., Leda, P., U. Jinu, and Venkatachalam, P., 2018. Over-expression of 3-hydroxy-3-methylglutaryl-coenzyme A reductase 1 ( <i>hmgr1</i> ) gene under super-promoter for enhanced latex biosynthesis in rubber tree ( <i>Heveabrasiliensis</i> Muell. Arg.). <i>Plant Physiology and Biochemistry</i> 127: 414-424.	8.72
9.	Jisha S., Gouri P.R., Anith, K. N. and Sabu, K.K. 2018, Stress analysis and cytotoxicity in response to the biotic elicitor <i>Piriformosporaindica</i> and its cell wall extract in <i>Centellaasiatica</i> L. <i>Physiological and Molecular Plant Pathology</i> 103: 8-15	7.40
10.	Jisha S., Gouri P.R., Anith, K.N. and Sabu, K.K. 2018, <i>Piriformosporaindicacell</i> wall extract as the best elicitor for asiaticoside production in <i>Centellaasiatica</i> (L.) Urban evidenced by morphological, physiological and molecular analyses. <i>Plant Physiology and Biochemistry</i> , 125: 106-115.	8.72
11.	John, J. K., Roy, Y. C., Krishnaraj, M. V., Nair, R. A., Deepu Mathew and Bhat,K. V., 2018, A new subspecies of <i>Momordicacochinchinensis</i> (Cucurbitaceae) from Andaman Islands, India. <i>Genetic Resources and Crop Evolution</i> , 65 (1): 103-112. doi:10.1007/s10722-017-0512-6	7.13
12.	Johnson J.M., Thürich J., PetutschnigE.K., Altschmied L., Meichsner D., Sherameti J., Dindas J., Mrozinska A., Paetz, C., Scholz S., Furch A., Lipka V., HedrichR., Schneider, B., Svatoš A. and Oelmüller R. 2018, A poly(A) ribonuclease controls the cellotriose-based interaction between <i>Piriformosporaindica</i> and its host. <i>Plant Physiology</i> 176: 2496-2514	11.95
13.	Johnson, J.M., Ludwig, A., Furch, A.C.U., Mithofer, A., Scholz, S., Reichelt, M. and Oelmuller,R. 2018. The beneficial root-colonizing fungus <i>Mortierella hyaline</i> promotes the aerial growth of <i>Arabidopsis</i> and activates calcium-dependent responses which restrict	10.33

	<i>Alternariabrassiccae</i> -induced disease development in roots. <i>Molecular Plant Microbe Interactions</i> , doi/10.1094/MPMI-05-18-0115-R	
14.	Konstantinov, A.S., Prathapan, K.D. and Vencl, F.V., 2018. Hiding in plain sight: leaf beetles (Chrysomelidae: Galerucinae) use feeding damage as a masquerade decoy. <i>Biological Journal of the Linnean Society</i> , 123(2): 311-320.	8.53
15.	Korah, P.L. and Shylaraj, K.S., 2018. <i>In vitro</i> proliferation competence of protocorm-like-bodies for direct induction of shoot buds for multiplication of vanda 'Robert's Delight'. <i>Propagation of Ornamental Plants</i> , 18 (4): 115-123.	6.40
16.	Kumar, B.M. and Jose, S., 2018. Phenotypic plasticity of roots in mixed tree species agroforestry systems: review with examples from peninsular India. <i>Agroforestry Systems</i> , 92:59–69. doi:10.1007/s10457-016-0012-2	7.20
17.	Kunhamu, T.K., Aneesh, S., Kumar, BM, Jamaludheen, V., Raj, AK. and Niyas, P. 2018. Biomass production, carbon sequestration and nutrient characteristics of 22-year-old support trees in black pepper ( <i>Piper nigrum</i> . L) production systems in Kerala, India. <i>Agroforestry Systems</i> , 92: 1171–1183. DOI 10.1007/s10457-016-0054-5	7.20
18.	Lal, R., Soni, K.B., Alex, S., Sreekantan, L., Reghunath, B.R. 2018. Identification and characterization of a protease encoding metagenome clone from dairy effluent. <i>J. Scientific Industrial Res.</i> 77(10): 583-586.	6.53
19.	Nisha, S.K., Sreelathakumary, I. and Celine, V.A. 2018. Variability, Interrelationship and path coefficient studies in watermelon. <i>Indian J. Hort.</i> 75(4): 619-624.	6.15
20.	Parvathi, M. S., Nataraja, K. N., Reddy, Y. N., Naika, M. B., & Gowda, M. C. Transcriptome analysis of finger millet ( <i>Eleusinecoracana</i> (L.) Gaertn.) reveals unique drought responsive genes. <i>Journal of Genetics</i> , 98(2), 46.	6.67
21.	Pradeepkumar, T., Minimol, J. S., Deepu Mathew., Veni, K., VarunRoch, C., Chithira, P. G. and RajeshwaryUnni. 2018, Development of CSMS system in ridge gourd ( <i>Luffaacutangula</i> (Roxb.) L.) for production of F <sub>1</sub> hybrids. <i>Euphytica</i> , 214: 159. (7.55)	7.55
22.	Pradhan, D., Deepu Mathew, Mathew, S. K. and Nazeem, P. A., 2018, Identifying the markers and tagging a leucine-rich repeat receptor-like kinase gene for resistance to anthracnose disease in vegetable cowpea [ <i>Vignaunguiculata</i> (L.) Walp.]. <i>The Journal of Horticultural Science and Biotechnology</i> , 93 (3): 225-231. doi: 10.1080/14620316.2017.1362962.	6.72
23.	Prakash, A.V., Nair, D. S., Alex, S., Soni, K.B., Viji, M. M. and Reghunath, B. R. 2018. Calcium alginate encapsulated synthetic seed production in <i>Plumbagorosea</i> L. for germplasm exchange and distribution. <i>Physiol. Mol. Biol. Plants</i> , 24(5): 963–971.	7.15
24.	Pragna, P., Sejian, V., Bagath, M., Krishnan, G., Archana, P.R., Soren, N.M., Beena, V and Bhatta, R. 2018, Comparative assessment of growth performance of three different indigenous goat breeds exposed to summer heat stress. <i>Journal of Animal Physiology and Animal Nutrition</i> , DOI: 10.1111/jpn.12892 (7.61)	7.61
25.	Prathapan, K.D., Pethiyagoda, R., Bawa, K.S., Raven, P.H. and Rajan, P.D., 2018. When the cure kills—CBD limits biodiversity research.	20.00

	<i>Science</i> , 360(6396), pp.1405-1406.	
26.	Radha, T., James, P., Simi, S., Davis, S.P., Nazeem, P.A., Shylaja, M.R. and Deepu Mathew, 2018, MangoDB: A database of mango varieties and landraces of the Indian subcontinent. <i>Current Science</i> , 114 (10): 2022-2025.	6.88
27.	Rao, G.P., Madhupriya, and Johnson, J.M. 2018. Detection and identification of four 16S rsubgroups of <i>phytoplasmas</i> associated with different legume crops in India. <i>Eur. J. Plant Pathol.</i> , 150(2): 507-513.	7.47
28.	Roy, N., Nazeem P.A., Babu T.D., Abida, P.S., Narayanankutty, A., Valsalan, R., Valsala, P.A. and Raghavamenon AC. 2018. EGFR gene regulation in colorectal cancer cells by garlic phytochemicals with special emphasis on S-Allyl-L-Cysteine Sulfoxide. <i>Interdisciplinary Sciences: Computational Life Sciences</i> , 10 (4): 686–693.	6.80
29.	Ruan, Y.O.N.G.Y.I.N.G., Konstantinov, A.S., Prathapan, K.D., Zhang, M., Jiang, S. and Yang, X.I.N.G.K.E., 2018. New contributions to the knowledge of Chinese flea beetle fauna (III): revision of <i>Meishania</i> Chen Wang with description of five new species (Coleoptera: Chrysomelidae: Galerucinae). <i>Zootaxa</i> , 4403(1): 186-200.	6.93
30.	Sagaran, K.A., Raj, A.K., Kunhamu, T.K., Thomas, C.G. and Kumar, A.V., 2018. Management of calliandra ( <i>Calliandra calothyrsus</i> Meissn.) in coconut plantation for boosting forage yield and nutritive value. <i>Range Management and Agroforestry</i> , 39(1): 65-71.	6.64
31.	Sagarika, N., Prince, M.V., Kothakota, A., Pandiselvam, R., Sreeja, R. and Mathew, S.M., 2018. Characterization and optimization of microwave assisted process for extraction of nutmeg ( <i>Myristica fragrans</i> Houtt.) mace essential oil. <i>Journal of Essential Oil Bearing Plants</i> , 21 (4):895-904.	6.68
32.	Shylaraj, K.S., Nadh, S.G. and Chandran, S.K. 2018. Comparative analysis of grain quality and nutraceutical properties of selected rice varieties from Kerala. <i>Current Science</i> , 114 (5): 1088-1094.	6.88
33.	Sreelakshmi, P., Mathew, T. B., Raj Kumar, J., and Ambily Paul. 2018, Synergist induced susceptibility of tobacco caterpillar, <i>Spodopteralitura</i> (Fabricius) from Kerala, India exposed to conventional insecticides. <i>Phytoparasitica</i> , 46(1): 97-104. <a href="https://doi.org/10.1007/s12600-018-0641-2">https://doi.org/10.1007/s12600-018-0641-2</a>	7.01
34.	Susha, V.S., Das, T.K., Nath, C.P., Pandey, R., Paul, S. and Ghosh, S., 2018. Impacts of tillage and herbicide mixture on weed interference, agronomic productivity and profitability of a maize–Wheat system in the North-western Indo-Gangetic Plains. <i>Field crops research</i> , 219, pp.180-191.	9.13
35.	Vahabi, K., Reichelt, M., Johnson, J.M., and Oelmüller, R. 2018. <i>Alternaria brassicae</i> induces systemic jasmonate responses in <i>Arabidopsis</i> which travel to neighboring plants via a <i>Piriformsopora indica</i> hyphal network and activate abscisic acid responses. <i>Front. Plant Sci.</i> 9: 626. doi:10.3389/fpls.2018.00626	9.68
36.	Vandana, G.D., Bagath, M., Sejian, V., Krishnan, G., Beena, V and Bhatta, R. 2018, Summer season induced heat stress impact on the expression patterns of different toll-like receptor genes in Malabari	6.70

	goats. <i>Biological Rhythm Research</i> , <a href="https://doi.org/10.1080/09291016.2018.1464638">https://doi.org/10.1080/09291016.2018.1464638</a>	
37.	Varkey, J.K., Gopakumar, S., Vidyasagar, K., Mathew, J. and Santhosh Kumar, A.V., 2018. Forest laws, for whom, by whom? A concept mapping study of the Ecologically Fragile Lands Act, 2003 in Wayanad, Kerala, India. <i>Current Science</i> , 115 (8): 1459-1469.	6.88
38.	Vikram, H. C., Raj, N. M., Deepu Mathew, 2018, Candidate molecular markers for monoecy in dioecious tree spice nutmeg ( <i>Myristicafragrans</i> Houtt.) and analysis of genetic variability in a core collection. <i>Current Science</i> , 114 (1): 23-25.	6.88
39.	Vishnu, R., Anoop, E.V., Warriar, K.C.S. and Anish, M.C., 2018. Genetic divergence for growth and wood Annexures in different clones of <i>Casuarina equisetifolia</i> . <i>Journal of Tropical Forest Science</i> 30 (4): 615-621.	6.66

#### Annexure B2

SI No.	Number of faculty members having h-index as 10 or more	Total number of faculty	Percentage of faculty with h-index as 10
	8	400	2 %
<b>List of faculty members having h-index as 10 or more</b>			
SI No.	Name of the faculty	h-index	
1.	B.Mohankumar	22	
2	Joy.P.P	11	
3	Joy M.J	10	
4	Anith. K.N	7	
5	Nameer P.O	10	
6	Pradeepkumar.T	9	
7	Prathapan K.D	12	
8	Nazeem P.A	9	

#### Annexure B3: Research Excellence

- (i) Patents : One interim patent of Dr.M. R.Shylaja (**Proof B3(i)** attached separately)
- (ii) Varieties/ Breeds/Technologies/ New Farm Machinery  
23 new varieties, one farm machinery- Dr.K.P.Sudheer- Multifruit slicer and one technology- Dr.E.V.Anoop- Coconut wood treatment technology (**Proof B3(ii)** attached separately)
- (iii) Funds received :

SI No.	Name of project	Total outlay in lakhs	Funding Agency
1	Import of planting material	100.00	SHM
2	Establishment of mushroom and spawn production unit and training centre	15.00	SHM
3	Establishment of mushroom and spawn production unit	15.00	SHM
4	Establishment of disease forecasting unit	6.00	SHM

5	Commercialization and distribution of liquid formulation of microbial biopesticides for plant disease management	90.00	SHM
6	Survey, collection, establishment and maintenance of traditional mango variety – Karpooram	4.99	SHM
7	Establishment of advance centre for mushroom spawn production at CoH, Vellanikkara	15.00	SHM
8	Popularization of improved varieties of ginger and turmeric by accelerating on farm seed production at Dept. of Plantation Crops and Spices, CoH, Vellanikkara	7.50	SHM
9	Frontline demonstration on cultivation of strawberry varieties to the soil and climate of Idukki district, at CRS, Pampadumpara	12.50	SHM
10	Seed infrastructure in KAU research station	58.00	SHM
11	Establishment of plant health clinic at IFSRS, Karamana	15.00	SHM
12	Establishment of a unit for production of liquid formulation of microbial bioagents at AICRP on BCCP, CoH, Vellanikkara	70.00	SHM
13	Popularization of seedless watermelon hybrids (Shonima and Swarna) developed by KAU at Dept. of Olericulture, CoH, Vellanikkara	10.00	SHM
14	Strengthening of existing tissue culture unit at Cocoa Research Centre, KAU	20.00	SHM
15	Model mushroom production centre at KVK, Thrissur	18.55	SHM
16	Colaborative research project on improvement of banana for small holder farmers in the Great lake region of Africa- Indian component- Breeding for improved banana for Fusarium wilt resistance	5.70	Dept. of Agriculture, GoI
17	Study on structural design and management for the hi-tech horticulture in Kerala.	20.00	Dept. of Agriculture, Kerala
18	Popularization of bio intensive integrated pest management (BIPM) in kerala	2.50	ATMA
19	Safe Agricultural Practices for the management of Mango hopper	3.00	ATMA
20	Integrated depredatory bird management in rice and vegetables	3.00	ATMA
21	Techniques for boosting black pepper production- Identification of primary causes and management of yellow in black pepper	2.00	ATMA
22	Strengthening Facilities for quality assessment of organic manures	3.00	ATMA
23	Rock dust nutrition for yield enhancement in the iron toxic laterite Soils of Kollam district through a farmer participatory research	1.00	ATMA
24	Establishment of technology refinement and marketing programme - 'TREMAP'	20.00	State Planning Board(Dept. of

			Agriculture)
25	Scaling up production and distribution of quality seeds and planting materials (Wayanad Package)	15.00	Dept. of Agriculture, Kerala
26	Establishment of seed bank	30.00	Dept. of Agriculture, Kerala
27	Establishment of techno incubation centre for commecialization of value added products from under exploited fruits and vegetables	20.00	Dept. of Agriculture, Kerala
28	Wayanad package 2017-18 - Production, value, addition & marketing of jackfruit -	25.00	Dept. of Agriculture, Kerala
29	GI Registration of Kodungallore - Pottuvellari & Edayar mulaku	1.00	Dept. of Agriculture, Kerala
30	GI Registration of Attappady - Thuvara (Red gram) Aattukombu Avava	1.00	Dept. of Agriculture, Kerala
31	Management of Wild Animal Intrusion in Cropped Area	3.00	Dept. of Agriculture, Kerala
32	Developing an elephant intrusion - Detection and Early Warning System and its Networking	5.00	Dept. of Agriculture, Kerala
33	Wayanad package - Integrated pepper development	5.00	Dept. of Agriculture, Kerala
34	Economic Ecofriendly and economic crop health package	3.00	ATMA
35	Development mosaic tolerant varieties of bitter gourd	4.00	ATMA
36	Participatory Evaluation of Garlic Genotype in Devikulam block	3.00	Dept. of Agriculture, Kerala
37	Horticulture Therapy – A Tool to Rehabilitate the Differently Abled Children at Schools	8.00	Dept. of Agriculture, Kerala
38	Empowering Differently Abled Children through Social Farming and Horticulture Therapy	2.00	KSSM
39	KSAMM – Formation of Apex body for effective co-ordination of Agro Service Centres and pooling the machinery & equipment of the Department under the system	25.00	Dept. of Agri.
40	Targeted yield realization of rice in major rice tracts of Ernakulam District	1.00	ATMA
41	Nutrient management of rice tracts in Kari Soil	1.00	ATMA
42	Safe to eat branding pesticide residue analysis of vegetables and fruits	5.00	Dept. of Agriculture,

			Kerala
43	Monitoring of pesticide residue in/on vegetables and fruits from GAP clusters/ecoshop in the central distircts of Kerala	4.00	Dept. of Agriculture, Kerala
44	Monitoring of pesticide residue in/on vegetables and fruits from GAP clusters/ecoshop in the northern distircts of Kerala	4.00	Dept. of Agriculture, Kerala
45	Protection of Kanthalloor - Vattavada Garlic, Geographical indication	2.00	Dept. of Agriculture, Kerala
46	Establishment of a centre of excellence in environmental economics	15.00	Department of Environment & Climate Change
47	Agro Tourism project at Agricultural Research Station Anakkayam	10.00	District Tourism Promotion Councils
48	Participatory Evaluation of Garlic Genotype in Devikulam Block	3.00	State Planning Board(Dept. of Agriculture)
49	Pilot project Human wildlife conflict mitigation	2.00	Ollukkara block panchayath
	<b>Total</b>	<b>714.74</b>	

**Annexure B3 (iv):**

**Project Management and Evaluation Cell  
Research Monitoring Mechanism at KAU**



B3(A)  
DR ofhu.

## Project Management and Evaluation Cell

### Research Monitoring Mechanism at KAU

Project Management and Evaluation of KAU is managed by the Project Management and Evaluation Cell under the leadership of the Director of Research who is supported by a team of Associate Directors of Research based at the headquarters, viz; ADR (Monitoring & Evaluation), ADR (Planning), ADR (Adaptive Research & Training), ADR (seeds), ADR (Forestry) and ADR (EAGRL. Engineering). Besides, a team of Associate Directors of Research head the five Regional Agrl. Research Stations (RARS) and support the Directorate of Research at zonal level. The Professor (Research Coordination) ensures Research co-ordination, including conduct of FRC. The entire research projects are further grouped into project Coordination groups (PC groups) based on themes. The PC groups are headed by group coordinators nominated by the Director of Research. The functions of the PC groups include evaluation and assessment of the new projects prior to approval of the FRC; reviewing the ongoing projects and preparing research reports and highlights. At present, twenty two Project Coordination groups are active at KAU under the faculties of Agriculture, Engineering & Forestry and they review the technical & financial progress of projects once in six months.

Monitoring and evaluation is conducted at different levels as follows.

1. By the Head of station/college
2. By the Regional Associate Director in the case of the station in the region
3. By the ADR ( At Headquarters)
4. By the Director of Research
5. By the Faculty Research council (FRC)

In addition to the above, a Monitoring & Evaluation cell is operational at Directorate of Research under the Principal Investigatorship of ADR (M& E). He/she shall identify and update indicators of project performance in comparison to annual and end-of-project targets, collate physical and financial output in relation to annual and end-of-project targets; assist the Directorate of Research in addressing the problems encountered during the reporting period to formulate remedial actions and document success cases with an assessment of the social and environmental impacts.

The final/completion report and annual progress report of research projects funded by RKVY, ICAR, AICRP/AINP, SHM, KSCSTE, DBT,DST, State plan etc. are evaluated and evaluation report along with final/completion report are forwarded to the concerned funding agency.

  
10/6/19  
Director of Research  
Kerala Agricultural University  
K.A.U. Post, Vallenikkara  
Thrissur - 680 656

## Annexure C2

### Extension workers Award at State / National Level (by Government Agency) during 2018

Sl. No.	Name of faculty	State/ National
1.	Dr. Jacob John	State- KrishiVigyan Award
2.	KAU-Ist prize	State - VAIGA 2018
3.	ThrissurPooram Exhibition Award-1 st Prize	State - Agri sector Pavilion
4.	Dr. M Israel Thomas	National- Best Extension Professional Award
5.	Dr.Sangeetha K G	National- Excellence in Extension Award
6.	Dr.Ajith P. M.	National- Achiever Award 2018

Proof attached C2(1), C2(2), C2(3), C2(4), C2(5), C2(6)

## Annexure C3

Quality input supplied by University (Seed, Semen, planting material etc.) during 2018	Worth Rs. 21,05,59,270/- Certificate from ADR (Seeds). <b>Proof C3 attached</b>
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## Annexure C4

Revenue generated through consultancies, certification, testing, tuition fee, licensing, training, sale of inputs and commercialization of technologies during FY 2018-19.	7350 samples from various institutions
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## Annexure C5

Revenue generated through consultancies, certification, testing, tuition fee, licensing, training, sale of inputs and commercialization of technologies during FY 2018-19.	Worth Rs. 543,57,239/- Certificate from the Comptroller <b>Proof C 5 attached</b>
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C-5

**Details of Revenue generated for the financial year 2018-19 as on 4-6-2019**

Item	Total revenue generated	Total Budget of University	Percentage
Internal Receipts	215938120	517297100	41.74353964
Revolving Fund	327634271	435600000	75.21447911
<b>Total</b>	<b>543572391</b>	<b>952897100</b>	<b>57.0441857</b>
SI.No	Revenue Generated	Amount in Lakhs	
<b>I Internal Receipts</b>			
1	Consultancies	46.28156	
2	Certification	12.77584	
3	Testing	8.2319	
4	Tuition fee	248.13945	
5	Licensing	0	
6	Training	16.32579	
7	Sale of inputs	44.84382	
8	Commercialization of Technologies	2.69	
9	Others		
i	Interest	397.12413	
ii	other fees	322.36888	
iii	college properties	103.26065	
iv	University properties	957.33918	
	<b>Total</b>	<b>2159.3812</b>	
	<b>II Revolving Fund</b>	<b>3276.34271</b>	
	<b>Grand Total</b>	<b>5435.72391</b>	
The figures in respect of receipts may vary as the annual accounts for the F Y 2018-19 are yet to be finalised.			



  
**Dy. Comptroller**  
 Senior Deputy Comptroller (B&P)  
 Kerala Agricultural University  
 Vellanikkara

**Annexure C6**

<b>Number of inter-institutional collaborative projects obtained during 2018</b>	6 projects -Proc.Order / MoU <b>Proof C 6 attached</b>
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**Annexure C7**

<b>Partnership with Private Sector made during 2018</b>	3 projects- Proc.Order / MoU <b>Proof C 7 attached</b>
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**Annexure C8**

<b>Exchange of faculty (Sabbatical, Visiting Scientist, Adjunct Faculty) during 2018</b>	Dr. Rose Mary Francis <b>Proof C8 attached</b>
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**Annexure C9**

<b>Number of Enterprises / start-ups promoted by the University</b>	1)To Sri.P. Vineeth, Iruvetti P.O, Malappuram 2) To Dr.Shajee Damodaran, M D, Brahma Indic Nutriment Pvt.Ltd., Thrissur 3) To QREX Biosolutions Pvt. Ltd, TVM <b>Proof C9 attached</b>
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**Annexure C10**

<b>Percentage of Students employed in Public/Private/Banking Sectors</b>	List attached
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**List of students who secured employment in 2018 (1.1.2018 – 31.12.2018)**

Sl. No.	Name of student	Name of organisation	Designation
1	Arya Bhaskar	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
2	Anjana Ajaykumar	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
3	Aswani K.S	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
4	Nithesh Babu	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
5	Shabra Yasim	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
6	Reshma Gopi	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
7	Nimisha Augustine	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
8	Aparna T G	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
9	Vishnu Narayanan	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
10	Leena K.P.	Department of Agriculture Development	Agricultural Officer

		and Farmers Welfare	
11	Chitra Gangadharan	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
12	Shipa	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
13	Amrtha. A.V	A.O in Bank	
14	Unnimaya. B	Livestock Development Officer	
15	Ramisa E.M	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
16	Nikitha J	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
17	Saranya V.S	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
18	Athul V.	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
19	Jeena Gerorge	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
20	Prathibha S.S	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
21	Darshan S	Private	R & D Officer
22	Siddhesh R Nadkarni	United Genetics India Pvt. Ltd	Junior Breeder
23	Kavishetti Vinay Vishwanath	MAHYCO	Junior Breeder
24	G. Sreenivas	ANGRAU	Assistant Professor
25	Srinivas B.	Agricultural Department, Govt. of Telegana	
26	Gangadhara K.	ARS ICAR	Scientist
27	Harikrishnan G. R.	KPSC	PSC Assistant
28	Hridya A	Agricultural Insurance Company of India	Administrative Officer
29	Rajib Das	Assam Agricultural University	Principal Scientist
30	Patil Krantikumar Haunssairao	Priivate Agriculture College in Maharashtra	Principal
31	Sathishkumar S	Canara Bank	Probationary Officer
32	Manu R	SIRA, Karnataka	Technical Asst.
33	Brunda S M	IndoAmerican Hybrid Seeds	Assistant Breeder
34	Harikrishnan P J	UPSC	IFS
35	Thushara T Chandran	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
36	Shymi Cherian	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
37	Anusree S. S	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
38	Ajil M.S.	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
39	Aneesh Ahmed	Bank of Baroda	Probationary Officer
40	Jilna Joy	NABARD	Assistant Manager
41	Vishnu H Das	NABARD	Assistant Manager
42	Sneha G Ajay	RRB	Probationary Officer

43	Arjun P.A	Canara Bank	Probationary Officer
44	Veenamol	Indian Bank	Probationary Officer
45	Nithin Mohan	Oriental Bank	Probationary Officer
46	Amal Dev	Canara Bank	Probationary Officer
47	Ananth C. Babu	Canara Bank	Probationary Officer
48	Jithin N.P	ESAF Bank	Officer Trainee
49	Sudhi Chandran	La Scentuer Fragrance technologies	Sales Executive
50	Raghul Rajesh	The Catholic Syrian Bank Limited	Relationship Executive
51	Pramudha.N.M	Elijah Institute of Management Studies	Assistant Professor
52	Sherin Varghese	INDOCERT	Inspection and Certification officer&Coordinator
53	Anson .P.Johnson	Vodafone Idea Limited	CRM Executive
54	V.Deepan Chakravarthy	Sawan General Trading Company	Marketing Executive
55	Jobin John	INDOCERT	Clients Relationship manager
56	Aswathy Rani .V	The Catholic Syrian Bank Limited	Relationship Executive
57	Athira .S.Krishna	Promise Educational Services	Assistant Manager
58	Kessiya Chinnu Roy	Royal Bank of Scotland	CSO analyst
59	Malavika C G	Ponnadu Service Co-operative Bank, Alappuzha	Secretary
60	Elsa George	KILA, Thrissur	Research Assistant
61	Reshma Francis	ESAF, Thrissur	Sales Officer
62	Sasikant Pandey	Postal Department, Bihar	Post Master
63	Sruthy G Surendran	Service Co-operative Bank, Kottayam	Clerk
64	Jismi Jacob	Himalaya Bake& Confectionaries	Quality Controller
65	Arya S Anand	SBI	Junior Associate
66	Haritha J	SIB	Clerk
67	Jugunu Hameed	IISR	Research Assistant
68	Joseph Sunny	Johndeere	Sales Manager
69	Claudia K L	KCAET,Tavanur	Assistant Professor(Contract)
70	Ardra Wilson	KCAET,Tavanur	Assistant Professor(Contract)
71	Anoop S V	ARS,Mannuthy	Project Executive
72	Ajinas Basheer T	Vintage coffee house,pvt limited,Hyderabad	Coffee house taster
73	Geethu Krishnan	Central Bank of India	Agriculture Specialist Officer
74	Aksa V Reji	Agro Industrial Training Institute, Punalur	Instructor (Guest)
75	Arun P S	KCAET,Tavanur	Technical Assistant (Geospatial Division)

76	Nipin Balu	KCAET,Tavanur	Technical Assistant (Geospatial Division)
77	Mohammed Favasil	KCAET,Tavanur	Technical Assistant (Geospatial Division)
78	Ciya Paul	Weltweit Certifications Pvt Ltd.	Technical Officer

79	Sibin C Baby	More Retail Ltd	Sourcing Head for North Karnataka Region
80	Aswathy M S	KCAET,Tavanur	Assistant Professor(Contract)
81	Athira Prasad	KCAET,Tavanur	Assistant Professor(Contract)
82	Geetha P	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
83	Frasana Shamin	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
84	Shahanila P	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
85	Aswathy Viswanathan	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
86	Sumbula V	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
87	Ardra S Raghunath	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
88	Jamaludeen A	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
89	Savitha Antony	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
90	Safna Kalarikkal	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
91	Surya Mol T R	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
92	Anil Sebastian	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
93	Lakshmy K Mohan	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
94	Anu Mary Markose	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
95	Sreedhu P Preman	Department of Agriculture Development and Farmers Welfare	Agricultural Officer

96	Swapna Surendran	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
97	Sreeram V	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
98	Deepthi R	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
99	Shameena S	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
100	Deepa U V	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
101	Unnikrishnan M P	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
102	Neethu N S	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
103	Bushra T T	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
104	Nithya C P	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
105	Adarsh K K	Department of Agriculture Development and Farmers Welfare	Agricultural Officer
106	Abin P K	IFFCO	Technical Officer
107	Bennet Thomas	Federal Bank	Probationary Officer
108	Shiji M S	ICDS	Supervisor
109	Revathy G Nath	ICDS	Supervisor
110	Ramya P R	Health Department, Go K	Junior Health Inspector
111	Sruthy P M	Private College	Assistant Professor
112	Ramya Mol P	Private College	Assistant Professor