

Chapter - V



EXTENSION EDUCATION



5.1 Directorate of Extension Education

The Directorate of Extension Education was established according to the Chapter-3, Part-IX vide Section 14.1(3) of the Gujarat Agricultural Universities Act-2004, for dissemination of the research findings and technical information through extension education programmes. The main function of the Directorate is to plan, coordinate, organize and guide the extension education programmes in the University and to ensure efficient working of the extension activities in close coordination with other departments and state voluntary organizations, other officers and scientists of the University. Extension Education is one of the triple functions of the Junagadh Agricultural University to boost up the agricultural production. The University has been making substantial contribution in diffusing and

communicating agricultural technologies among the extension personnel and farming community of the region. The technologies generated in agriculture and allied sciences by the University are being transferred to the end users. Dr. A. M. Parakhia and Dr. P. V. Patel supervised and guided the extension education activities during the reporting year.

5.2 Extension Education Council

The Extension Education Council was constituted according to the provision of the Gujarat Agricultural Universities Act-2004 in exercise of the statutes No S.31 & notification of Registrar No. JAU/Reg/Aca-2/Ext.Edu. Council/13887-13936/ 2013, date 31-07-2013. Extension Education Council meeting was organized on 24.08.2018. The members of Extension Education Council as under.

Sr. No.	Name / Designation	Position
	The Vice Chancellor	
1.	Dr. A. R. Pathak, Hon'ble Vice Chancellor	Chairman
	The Director of Research	
2.	Dr. V. P. Chovatia, Director of Research and Dean P.G.	Member
3.	The Deans of Faculties	
1.	Dr. V. P. Chovatia, Principal & Dean College of Agriculture, JAU, Junagadh	Invitee
2.	Dr. N. K. Gontia, Principal & Dean, College of Agril. Engg. & Technology, JAU, Junagadh	Member
3.	Dr. A.Y. Desai, Principal & Dean, College of Fisheries, JAU, Veraval	Member
4.	Dr. P. H. Tank, Principal & Dean, College of Veterinary Sci. & A. H., JAU, Junagadh	Member
5.	Dr. K. A. Khunt, Principal & Dean, PGIABM, JAU, Junagadh	Member
6.	Dr. B. K. Sagarka, Principal, College of Agriculture, JAU, Junagadh	Member
4.	Five Officer/ Extension Education Experts (Nominated by the Vice Chancellor)	
1.	Dr. V. J. Savaliya, Professor & Head, Department of Extension Education, JAU, Junagadh	Member
2.	Dr. K. D. Patel, Principal, Polytechnic in Horticulture, JAU, Junagadh	Member
3.	1. Dr. R. K. Odedara, Senior Scientist & Head, KVK, JAU, Khapat	Member
	2. Dr. Ramesh Rathod, Programme Coordinator, Krishi Vigyan Kendra, Ambujanagar, Kodinar	Member
4.	Other Extension Education Expert/ Farm Manager, JAU, Junagadh	Member
	1. Dr. V. G. Barad, Assistant Extension Educationist, Sardar Smruti Kendra, JAU, Junagadh	





Sr. No.	Name / Designation	Position
5.	The Eminent Extension Education Experts outside the University concern with Farmers training (Nominated by the Vice Chancellor)	
1.	Dr. A. O. Kher, Retd. Associate Director of Extension Education, GAU, Junagadh	Member
2.	Dr. M. N. Papat, Retd. Associate Director of Extension Education, GAU, Junagadh	Member
3.	Dr. V. V. Mayani, Retd. Extension Educationist, AAU, Anand	Member
6.	Three Director of Agriculture/ Horticulture/ Animal Husbandry	
1.	Director of Agriculture, GoG, Gandhinagar	Member
2.	Director of Horticulture, GoG, Gandhinagar	Member
3.	Director of Animal Husbandry, GoG, Gandhinagar	Member
7.	Two Progressive farmers (Nominated by the Vice Chancellor)	
1.	Shri Hiteshbhai Domadiya, Vadad (Junagadh)- Organic Farming	Member
2.	Shri Sanjaybhai Vagadiya, Dhava (Gir)- Horticulture Farming and Value Addition	Member
8.	1. Director of Extension Education, AAU, Anand	Invitee
	2. Director of Extension Education, NAU, Navsari	Invitee
	3. Director of Extension Education, SDAU, Sardar Krushinagar	Invitee
9.	Director, Information & Technology cell, JAU, Junagadh	Member
8.	Associate Director of Extension Education, JAU, Junagadh	Member
9.	Dr. A. M. Parkhia, Director of Extension Education, JAU, Junagadh	Member
	Dr. P. V. Patel, Director of Extension Education, JAU, Junagadh	Secretary

5.3 Extension Education and Training Centres

Sr.No.	Course / Programme	Location
Diploma/Certificate Courses		
1	Agriculture Polytechnic	Halvad
2	School of Baking	Junagadh
3	Mali Training Centre	Junagadh
4	Agro Base ITI Centre	Junagadh, Mahuva
Training Programmes for Extension Workers		
1	Training & Visit System Training Centre	Junagadh, Targhadia
2	Centre of Excellence for Training (Oilseeds)	Junagadh
Training Programmes for Farmers/Farm Women		
1	Krishi Vigyan Kendra	Jamnagar, Targhadia (Rajkot-I), Amreli, Khapat (Porbandar), Nanakandhasar (surendranagar), Pipaliya(Rajkot-II), Gorkhijadiya (Morbi)
2	Sardar Smruti Kendra	Junagadh
Extension Education Programmes for Rural People		
1	Farm Advisory Service Centre	Junagadh
2	Extension Programme for Fisheries	Okha





Extension Education and Training Programmes

(I) Diploma/Certificate Courses for Farm Youths

The Junagadh Agricultural University continued various Diploma/ Certificate courses during the year under report as per the details given below.

Sr. No.	Name of Course	Duration	Location	No. of Students Completed the Course
1	Agriculture Polytechnic	3 years	Halvad	30
2	Bakery Training			
	<ul style="list-style-type: none"> Basic Course in Baking Science Special Training to Women 	15 weeks 1 week	Junagadh Junagadh	22 (2 Batches) 220 (12 Batches)
3	Mali Training	6 months	Junagadh	10
4	Agro Base ITI Centre	6 months	Junagadh	
	<ul style="list-style-type: none"> Seed Production Technology Green House Construction & Systems Management 			32 06 (Continue)

All these courses are aiming to impart skill oriented practical training to farmers' son/daughter in order to provide an opportunity for self-employment and employment in different organizations.



Dr. P. V. Patel, DEE, Distributing Certificate in Bakery Training Course



Dr. P. V. Patel, DEE, addressing the student of Agro Base I.T.I. , Junagadh

(II) Training Programmes for Extension Workers/ Officers

(A) Training & Visit System

Junagadh Agricultural University has taken-up the task of training the extension personnel of the Department of Agriculture and Horticulture through

T & V System. The bi-monthly workshops, pre-seasonal training workshops and short-term training programmes organized for the extension personnel of the Department of Agriculture and the number of SMSs/AEOs who attended the programmes as given below.

Sr. No.	Type of programme	No. of Programmes	No. of Participants
1	Bimonthly Workshop	4	86
2	Pre-seasonal Training Programme	2	43
3	Agriculture - 6 (Oilseed) AGR-6	8	365
4	Other Training	5	185
	Total	19	679





Beneficiaries of Dept. of Agriculture & KVKs in Pre seasonal Training programme under T & V scheme



Dr. P. V. Patel, DEE, addressing the Officers of Dept. of Agriculture & KVKs in Bi-monthly Training programme under T & V scheme

(B) Other Training Programmes

The centre has continued to provide Scientific Knowledge to the farmers. The detail of the programmes are given below.

Khedut shibir and Diagnostic team visit

Sr.No.	Subject	No. of Activities	No. of Scientists allotted	Beneficiaries
1	<i>Khedut Shibir</i>	28	45	4980
2	Diagnostic Team	06	18	204

Training programme of Second year Master degree students of Lok Bharti, Lok Seva Mahavidyalaya, Sanosara, Dist. Bhavnagar.

Sr.No.	No. of Trainees	Period
1	38	24-09-2018 to 28-09-2018



Dr. P. V. Patel, DEE, addressing the Village of Madlikpur Farmer Training Programme Under COC Scheme



Dr. P. V. Patel, DEE, addressing the Mahila Kaushaly Training Programme Under COC Scheme





Dr. A. R. Pathak, Hon. VC. addressing the Participants' in 15 days Green house/Net house Training Programme



Field trip of Input Dealers at Progressive farmers' Green House

Input dealers' courses:

Sr. No.	Title of course	Duration	No. of Input dealer completed course
1	Diploma in Agricultural Extension Services for Input Dealers' (DAESI) at JAU, Junagadh	1 Year	200
2	Diploma in Agricultural Extension Services for Input Dealers' (DAESI) at Jamnager	1 Year	50
3	Diploma in Agricultural Extension Services for Input Dealers' (DAESI) at Targhdiya	1 Year	50
4	Diploma in Agricultural Extension Services for Input Dealers' (DAESI) at Veraval	1 Year	50
5	Diploma in Agricultural Extension Services for Input Dealers' (DAESI) at Amreli	1 Year	50
6	Diploma in Agricultural Extension Services for Input Dealers' (DAESI) at Khapat	1 Year	44



Field visit of Input Dealers at Radhe Farm at Sasan Gir



Felicitation to Hon'ble Vice Chancellor Dr. A. R. Pathak by Fertilizer dealers





Fertilizer dealer's courses:

Sr. No.	Title of course and Date of Training	Duration	No. of Fertilizer dealer completed course
1	Intigrated Nutrient Managment for fertilizer dealers Batch-I (27-12-2018 to 10-01-2019)	15 Days	38
2	Intigrated Nutrient Managment for fertilizer dealers Batch-II (26-02-2019 to 14-03-2019)	15 Days	38

Green House Net House Training:

Sr.No.	Title of Course	Duration	No. of Participants
1	Green House Net House Training For farmers (01-01-2019 to 15-01-2019)	15 Days	40



Hon'ble Vice Chancellor Dr. A.R. Pathak addressing the participants' in 15 days Green house/Net house Training Programme at JAU, Junagadh



Dr. A. R. Pathak, Hon. VC. addressing to input dealers at Auditorium

Collaborative training

Sr.No.	Name of training	Duration	Co- Organizer	No. of Trainees
1	New Technology of Vegetable	14-15/06/2018	Department of Horticulture, Dy. Dir. Hourtculture, Junagdh	51
2	Mango production technology organized by Gujarat Horticulture Mission	29/09/2018	Dept of Gujarat Horticulture Mission	85





Other trainings

Sr. No.	Name of training	Duration	Organizer	No. of Trainees
1	Mahila Training Programme on "Agriculture/Horticulture & Animal Husbandary"	22/06/18	Directorate of Extension Education JAU, Junagadh	28
2	Training Programme on "Crop's Grown in Green House/ Net house"	25/08/18	Directorate of Extension Education JAU, Junagadh	74
3	Training Programme on "Doubling Farmers income"	22/10/2018	IFFCO, Junagadh	232
4	Mahila Training Programme on "Agriculture/Horticulture & Animal Husbandary"	03/11/18	Directorate of Extension Education JAU, Junagadh	60
5	Training Programme on "NewAgriculture Technology"	20/12/18 to 22/12/18	Directorate of Extension Education JAU, Junagadh	39
6	Mahila Training Programme on Animal Husbandary and Food Preservation	19/03/2019	Directorate of Extension Education JAU, Junagadh	71

(III) Training/ Extension Education Programmes for Farmers/ Farm Women

(A) Training Programmes

Training is essential to increase the efficiency of farmers, farmwomen, & rural youths, etc. On-campus as well as off-campus training programmes were

organized based on the need and interest of the farming community.

Through the Transfer of Technology (TOT) Centres, 145 on-campus and 174 off-campus training programmes were organized, wherein 11352 participants received training. The details are given in Table 5.1.

Table 5.1 Training programmes organized by the Transfer of Technology Centres(KVKs) for farmers/farm women during the year 2018-19

Sr. No.	TOT Centre		No. of Trg. Prog.	No. of participants		Total
				Male	Female	
1	KVK, Jamnagar	A	14	282	213	495
		B	30	1542	315	1857
2	KVK, Targhadia	A	34	673	257	930
		B	29	504	208	712
3	KVK, Amreli	A	34	1019	297	1316
		B	40	1297	610	1970
4	KVK, Khapat	A	11	174	099	273
		B	20	443	253	696
5	KVK, Nanakandhasar	A	18	280	155	435
		B	18	313	079	392
6	KVK, Pipalia	A	22	484	244	728
		B	26	647	202	849
7	KVK, Gor Khijadiya	A	12	195	166	361
		B	11	214	124	338
	Total	A	145	3107	1431	4538
		B	174	4960	1791	6814
Grand Total			319			11352

A= On-campus B= Off-campus





On Campus training programme Organized at KVK Nana Kandhasar



Off Campus training programme Organized by KVK Jamnagar

(B) Extension Activities

The Transfer of Technology (TOT) centres also planned and organized extension activities like seminar/workshop/symposium, field/farmer's day, agriculture fair/exhibition, film/slide/video show, field visit, cattle camp, farmers' group/demonstration meeting, *etc.* by which total 1,97,076 beneficiaries benefited. The details of the extension activities organized and number of participants are given in Table 5.2

KVKs play an important role to provide guidance for income generation to the farmers by imparting skill oriented trainings. Besides, the KVKs conducted variety of extension activities, on farm testing, *etc.* The KVKs are also collecting feed back on farmers' problems, which are sent to the concerned scientists as these will provide guideline in reforming further research.

Table 5.2 Extension activities carried out by TOT centres during 2018-19

Sr. No.	Name of activity	KVK							Total
		Targhadia	Jamnagar	Khapat	Amreli	Nana Kandhasar	Pipalia	Gor Khijadia	
1	Krushhi Mela	3	05 (4969)	1 (1450)	03 (7500)	5 (2924)	00 (00)	04 (3144)	21 (19987)
2	Field day	3 (63)	13 (294)	7 (239)	15 (300)	9 (329)	17 (332)	04 (105)	68 (1662)
3	Guidance on farm	18 (104)	134 (1233)	220	90 (238)	30 (701)	15 (189)	07 (52)	514 (2413)
4	Guidance to visitors	110 (2081)	653 (2820)	1253	94 (3535)	8 (7329)	1751 (1751)	07 (3547)	3876 (21063)
5	Press note	5	11	1	15	15	2	09	58
6	Khedutshibir/ Night shibir/ Group discussion	7 (297)	40 (1033)	19 (377)	3 (262)	0	12 (334)	33 (763)	114 (3066)
7	Guidance through Telephone	2489	5826	1649	3066	3939	2694	2836	22499
8	Krushigosthi/ Seminar	11 (265)	18 (2944)	25 (594)	8 (218)	1 (117)	12 (576)	21 (257)	96 (4971)
9	Khedut meeting	9 (370)	6 (152)	21 (510)	27 (876)	4 (91)	51 (2464)	28 (260)	146 (4723)





Sr. No.	Name of activity	KVK							Total
		Targhadia	Jamnagar	Khapat	Amreli	Nana Kandhasar	Pipalia	Gor Khijadia	
10	T.V. Programme	5	1	0	5 (135)	1	0	03 (94)	15 (229)
11	Radio talk	1	0	0	0	0	0	01	02
12	Popular articles	4	3	0	4	0	2	04	17
13	Video show/ Film show	13 (1692)	112 (7843)	17 (457)	10	17 (1358)	19 (569)	21 (901)	209 (12820)
14	Cattle camp	1 (102)	0	0	0	0	9 (55)	0	10 (157)
15	Literature distribution	15 (8685)	480 (10863)	16 (1775)	4056	22 (11868)	12 (3211)	08 (1489)	553 (41947)
16	Literature published	1	4	4	3	0	0	0	12
17	Lectures delivered	24 (667)	183 (17513)	31 (654)	46 (2225)	193 (7058)	34 (1671)	26 (6184)	537 (35972)
18	Scientist's Farm visit	20	90 (694)	251	90 (238)	30 (701)	163 (339)	01 (06)	645 (1978)
19	Vocational training	1 (35)	1 (32)	2 (30)	3 (57)	0	3 (224)	0	10 (378)
20	Sponsored/ Collaboration training	5 (215)	6 (266)	9 (320)	7 (300)	48 (3181)	17 (831)	10 (534)	102 (5647)
21	<i>Krush</i> i-Go-Vidya subscriber Registered	0	0	0	0	0	5	0	05
22	Diagnostic team	4	58 (134)	4	5	0	33 (69)	0	104 (203)
23	Student (RAW)	1	1 (19)	0	80	5 (265)	0	0	87 (284)
24	Celebration of technology week	1 (602)	1 (645)	1 (363)	1 (551)	1 (672)	1 (277)	01 (180)	07 (3290)
25	Soil Sample Analyzed	50	190	172	210	292	65	0	979
26	Participated in Agril. Exhibition	4 (1308)	2 (1974)	1 (687)	1 (2447)	11 (2924)	1 (48)	05 (3326)	25 (12714)
								Total	30711 (197076)

Figures in parentheses indicate number of beneficiaries/copies

(C) Front Line Demonstrations (FLD)

The aim of front line demonstration is to demonstrate the production potentialities of newly released and pre-released production technologies of cotton, wheat, cumin, vegetables, pulses and oilseeds on farmer's field.

During the year a total 1745 FLDs were conducted on various oilseeds and pulses, viz., castor, mustard, groundnut, sesamum, cotton, gram, wheat, pearl millet and cumin in 623.23 ha during *kharif* and *rabi* seasons through KVKs. The results are present in Table 5.3





Table 5.3 Performance of frontline demonstrations organized during 2018-19

Sr. No	Centre	Crop	Variety/ Treatment	No. of FLDS	Area (ha)	Av. yield (q/ha)		Increase in yield (%)
						Demo.	Local check	
1.	KVK, Targhadia	Groundnut	GJG-22	10	4.0	19.90	18.20	9.34
		Groundnut	GJG-9	10	4.0	16.10	15.00	7.33
		Groundnut	IPM	10	4.0	18.62	17.50	6.42
		Gram	GJG-3	10	4.0	18.62	15.75	18.25
		Cumin	IPM	10	4.0	9.68	8.20	18.14
		Groundnut	IDM	10	4.0	18.35	16.85	8.90
		Cotton	IPM	10	4.0	31.50	29.42	6.10
		Cumin	GC-4	12	4.0	10.02	8.80	13.86
		Gram	GJG-3	20	8.0	17.20	14.72	16.85
		Sesame (summer)	G.Til-3, INM+IPM	25	20	9.10	7.51	21.17
		Groundnut (<i>Kharif</i>)	GJG-22, INM+IDM+IPM	50	20	16.73	14.61	14.51
		Gram	GJG-3	50	20	18.32	15.35	18.05
		Groundnut	GJG-22	50	20	16.16	15.00	7.75
2.	KVK Jamnagar	Groundnut	ICM, GJG-22	50	20	17.8	15.5	14.84
		Sesame	ICM, GT-4	50	20	7.8	6.7	16.42
		Groundnut	IPM/INM	100	40	30.14	26.29	15.80
		Pigeon pea	ICM	25	10	12.69	10.9	16.37
		Chickpea	ICM, GG-5	50	20	26	21	23.81
		Brinjal	ICM, GJLB-4	5	2	536.25	496.25	8.06
		Chilli	IPM	5	2	148.75	129.25	15.09
		Okra	ICM, GJO-3	5	2	216.75	190.75	13.66
		Cumin	IDM	10	4	11.14	10.51	8.80
		Coriander	ICM	25	10	16.60	14.84	11.88
		Cumin	ICM	50	20	11.67	10.28	13.55
		Pearl Millet	GHB-732	10	4	41.50	33.63	23.42
		Cotton	IPM/INM	20	8	15.25	13	17.70
		Cotton	ICM	25	10	19.30	16.20	20.61
		Kitchen Gardening	Veg. seed	50	2	581.36	499	29.48
		3.	KVK Amreli	Castor	GCH-9	10	4	11.94
Cotton	GTHH-49 (Bt)			10	4	9.0	8.0	13.9
Wheat	INM			10	4	45.71	40.14	14.06
Cumin	IDM			10	4	6.88	6.31	9.91
Coriander	GC-2			10	4	11.75	9.87	18.51
Green gram	GAM-5			25	6.25	7.99	6.70	21.34
Sesame	GT-3			25	6.25	6.82	5.90	20.61
Cotton	G.Cot.10 (Bt)			20	08	10.07	8.33	26.89
Cotton	IPM			50	12.5	10.85	9.15	18.62
Groundnut	GJG-22			20	05	11.05	8.81	30.15
Groundnut	IPM			50	12.5	10.85	9.15	18.62
Wheat	GW 463			25	6.25	41.84	31.93	31.04
Gram	GJG-3			25	6.25	20.10	16.66	20.62
Cumin	IDM	25	6.25	7.98	6.73	18.58		





Sr. No	Centre	Crop	Variety/ Treatment	No. of FLDS	Area (ha)	Av. yield (q/ha)		Increase in yield (%)
						Demo.	Local check	
4.	KVK Khapat	Groundnut	INM – <i>Rhizobium</i> + PSB	25	10	17.95	16.75	7.20
		Groundnut	GJG – 22	10	4	20.10	16.75	20.00
		Gram	GJG-3	20	8	16.52	14.20	16.34
		Cotton	IPM – Pheromone trap + <i>Beuveria bassiana</i>	25	10	24.67	21.35	15.55
		Animal Husbandry	Chilated Mineral Mixture	20	-	3000 (lit/lec)	2600 (lit/lec.)	15.38
		Animal Husbandry	Bypass fat	20	-	4500	3600	25.00
5.	KVK Nankhadhasar	Sesame	GT-4	10	4	3.63	3.13	15.81
		Groundnut	Mancozeb, Chlorothalonil	10	4	11.29	9.98	13.10
		Groundnut (Bioagent)	<i>Trichoderma</i>	05	2	3.98	3.74	6.28
		Cotton-20	<i>Azotobactor</i> , PSB, Micromix Grade IV	20	8	9.69	8.97	8.00
		Groundnut	<i>Rhizobium</i> , PSB, <i>Trichoderma</i> , <i>Beuveria</i>	25	20	17.59	15.05	16.86
		Wheat	GW-463	20	8	59.01	50.35	17.19
		Cumin	Mancozeb, Carbendazim	20	8	12.12	11.00	10.17
		Gram	GJG-6	10	4	18.96	16.55	14.58
		Chick pea	GJG-6, <i>Rhizobium</i> , PSB, <i>Trichoderma</i> , <i>Beuveria</i>	25	20	17.54	14.65	19.74
		Lucerne	Anand Lucerne -3	10	1.0	273 (3Cutting)	206 (3Cutting)	32.52
		Tomato	JT-3	10	0.1	306.8	255.1	19.9
		Brinjal	GJLB-4	10	0.1	322.76	276.5	16.8
		6.	KVK Pipalia	Groundnut	GJG-22	10	4	19
Groundnut	IDM			10	4	19	16	16.97
Groundnut	IPM			10	4	18.8	16	17.50
Chick pea	GG-5			10	4	28.3	23.3	21.18
Wheat	GW-496			10	5	49.4	46.4	6.60
Onion	GJRO-11			3	1.2	314.6	297.9	5.59
Brinjal	IPM			10	4.04	384.3	335	17.70
Tomato	INM			10	4.04	269	248.8	8.14
Cumin	IDM			10	4	9.2	7.5	22.50
Cotton	INM			10	4	25.7	23	11.74
Cotton	IPM			50	20	25.5	22.4	14.13
Animal Husbandry	Nutritional Management			10	-	8.27	7.95	4.00
Kitchen Gardening	Nutritional security			50	0.5	213.6	201.4	5.6
Groundnut (CFLD)	GJG-22			125	50	19.73	15.15	23.19
7.	KVK Gor Khijadia			Groundnut	GJG – 22	10	4.0	16.14
		Cotton	INM	10	4.0	11.5	10.4	10.2%
		Cotton	IPM	10	4.0	15.1	14.4	4.5%
		Gram	GG - 5	10	4.0	11.18	09.57	16.8%
		Cummin	GC - 4	10	4.0	12.0	10.8	11.4%
Total				1745	623.23			



**(D) Farm Advisory Service Scheme / SSK, Junagadh**

The Farm Advisory Service Scheme has been continued at SSK, Junagadh with a view to provide guidance and the latest information to the farmers on scientific farming. The farmers were advised

regarding their farm problems through correspondence and field visit. This centre acted as a link among research scientists, extension workers and farmers. During the year under report, various extension activities carried out by the centre are given below.

Sr.No.	Name of activity	No. of activities	No. of participants
1	Agricultural Fair	03	5,10,800
2	Agricultural Exhibitions	01	800
3	Guidance (Telephone & Personal Contact)	2851	2,851
4	Visitors	62850	62,850
		65705	5,77,301

(E) Extension Activities under Centre of Communication (COC) Scheme Objectives

- To establish the *Gram Kisan Samitis* (GKS) in the rural areas.
- To train the members of *Gram Kisan Samitis* in leadership, communication and cooperation for transfer of technologies.

- To disseminate the latest agricultural and allied technologies through *Gram Kisan Samitis* in rural areas.
- To carry out different extension activities through GKS in different villages.
- To know the feedbacks from the farmers.

Three-day on campus training programme under Centre of Communication (COC) Scheme

Sr. No.	Subject	No. of Training Programmes	No. of Beneficiaries
1	Training programmes for farmers on scientific farming	02	96
	Total	02	96

Two-day on campus training programme under Centre of Communication (COC) Scheme

Sr. No.	Subject	No. of Training Programmes	No. of Beneficiaries
1	Training programmes for farmers on Improved Agricultural Practices	01	30
	Total	01	30

One-day on campus training programme under Centre of Communication (COC) Scheme

Sr. No.	Subject	No. of Training Programmes	No. of Beneficiaries
1	Training programmes for farmers on scientific farming	06	528
	Total	06	528

Formation of *Gram Kisan Samitis* during the year 2018-19

Sr. No.	Date	Village	Taluko	District	Beneficiaries
1.	05/04/2018	Khalilpur	Junagadh	Junagadh	12
2.	25/04/2018	Alidhr	Kodinar	Junagadh	12
3.	06/05/2018	Mandlikpur	Jetpur	Rajkot	12
4.	26/05/2018	Fgas	Kalavd	Jamnagar	12
5.	15/06/2018	Vdal	Junagadh	Junagadh	12





Sr. No.	Date	Village	Taluko	District	Beneficiaries
6.	28/06/2018	Ddvi	Jamkandorna	Rajkot	12
7.	29/06/2018	Manvar khijadiya	Kalavd	Jamnagar	12
8.	30/07/2018	Obrdi	Gondal	Rajkot	12
9.	05/08/2018	Mespar	Gondal	Rajkot	12
10.	15/09/2018	Keshvala	Gondal	Rajkot	12
11.	20/09/2018	Thorala	Jamkandorna	Rajkot	12
12.	12/10/2018	Harmdiya	Gondal	Rajkot	12
13.	16/11/2018	Dothiji khdla	Jamjodhpur	Jamnagar	12
14.	21/11/2018	Kalmeghda	Kalavd	Jamnagar	12
15.	25/01/2018	Bangda	Kalavd	Jamnagar	12
16.	05/01/2018	Sarsai	Visavadar	Junagadh	12
17.	07/02/2018	Bhader	Dhari	Amreli	12
18.	21/02/2018	Namdiya	Manavder	Junagadh	12
19.	05/02/2018	Klyanpur	Drangdhra	Surendranagar	12
20.	16/02/2018	Madhapr	Morbi	Morbi	12
Total					240

Khedut Shibirs organized during the year 2018-19 under COC scheme

Sr. No.	Date	Village	Taluko	District	Beneficiaries
1.	24/04/2018	Pipaliya	Dhoraji	Rajkot	30
2.	03/08/2018	Bagasara	Bagasara	Amreli	21
3.	15/09/2018	Bagasara	Bagasara	Amreli	25
4.	25/09/2018	Bagasara	Bagasara	Amreli	13
5.	01/10/2018	Datrana	Menderda	Junagadh	23
6.	22/12/2018	Bagasara	Bagasara	Areli	28
7.	11/01/2019	Devki galola	Jetapur	Rajkot	30
8.	15/01/2019	Meshpar	Gondal	Rajkot	68
9.	15/01/2018	Meshpar	Gondal	Rajkot	46
10.	28/01/2019	Bhiyal	Junagadh	Junagadh	38
Total					320

Bakery Talim organized during the year 2018-19 under COC scheme

Sr. No.	Date	Village	Taluko	District	Beneficiaries
1.	09/05/2018	Bhenshan	Bhenshan	Junagadh	21
2.	09/05/2018	Bhenshan	Bhenshan	Junagadh	37
3.	03/05/2018	Bagasara	Bagasara	Amreli	31
4.	11/09/2018	Keshod	Keshod	Junagadh	35
5.	15/09/2018	Bagasara	Bagasara	Amreli	42
6.	25/09/2018	Bagasara	Bagasara	Amreli	29
7.	01/10/2019	Datrana	Menderda	Junagadh	20
8.	30/11/2018	Pranchi	Sutrapada	Gir Somnath	15





Sr. No.	Date	Village	Taluko	District	Beneficiaries
9.	22/12/2018	Natavarnagar	Bagasara	Amreli	33
10.	11/01/2019	Khirsara	Jetapur	Rajkot	71
11.	11/01/2019	Devki galola	Jetapur	Rajkot	20
12.	14/01/2019	Katrasa	Maliya	Gir Somnath	20
13.	15/01/2019	Meshpar	Gondal	Rajkot	27
14.	29/01/2019	Choki	Junagadh	Junagadh	35
15.	07/02/2019	Pipariya	Bagasara	Amreli	35
16.	07/02/2019	Bhader	Dhari	Amreli	42
17.	08/02/2019	Choki	Junagadh	Junagadh	15
18.	26/03/2019	Ita	Menderda	Junagadh	36
19.	25/03/2019	Dhari	Amreli	Amreli	34
20.	23/04/2019	Pipaliya	Dhoraji	Rajkot	33
Total					631

(F) Extension Activities carried out by Extension Education Centres

Extension activities carried out by various Extension Education Centres during the year are given below.

Sr. No.	Name of activity	Sardar Smruti Kendra, Junagadh	Fisheries Res. Station, Okha	School of Baking, Junagadh	Total
1	Krushimela	03 (510800)	01 (433)	00 (00)	03 (511233)
2	Guidance on farm	-	38 (2102)	2 (22)	40 (2124)
3	Guidance to visitors	(8672)	83 (1997)	08 (479)	91 (11148)
4	Press note	17	--	--	17
5	Khedutshibir / Night shibir / Group discussion	02 (97)	--	3 (135)	05 (232)
6	Guidance through Telephone	(2851)	(43)	--	(2894)
7	Khedut talim/Khedut Mahila talim	64 (2849)	--	--	64 (2849)
8	Video show/ Film show	-	-	-	-
9	Literature distribution	(13080)	312 (9286)	-	13392 (22366)
10	Literature Publication	03	-	-	03
11	Fisheries Training	-	25 (685)	-	25 (685)
12	Bakery Training	--	--	51 (2168)	51 (2168)
13	Agri. Exhibition	03 (510800)	-	-	03 (510800)
14	Agri. Literature show	13080	-	-	13080
Total					26774 (10,66,499)

* Figures in parentheses indicate no. of beneficiaries/copies





One day Training Programm at SSK



Off campus Backry training

Farm Women Training at SSK

ICAR project - Farmers' FIRST programme

The farmers' FIRST programme (FFP) was started on 30th, January 2017 jointly through ICAR and Junagadh Agricultural University under by the Directorate of Extension Education. Under this programme, total 650 small and marginal farmers including SC farmers and women farmers were selected on the basis of the land holdings, irrigation facilities, crops grown ,available resources and their interest in particular module with consideration of prescribed objectives and norms as per the ICAR guidelines for the project.

- To carry out basic survey of villages for planning to conduct experiment on crop-based module, NRM based Module, Crop diversification based module, Enterprise based module and Livestock based module under FFP project in respective villages (Nava vaghaniya, Mavjinjava, Hadala and Deri pipaliya).

- To distribute inputs among selected farmers for experiments on crop based module, NRM (Natural Resources Management) based Module, Crop diversification based module, Enterprise based module and Livestock based module under FFP project.
- To conduct field day on experiment on crop based module, NRM based Module, Crop diversification based module, Enterprise based module and Livestock based module under FFP project (Off campus).
- To take technical observation & farmer's feedback and to conduct kishan ghothi on experiments on crop based module, NRM based Module, Crop diversification based module, Enterprise based module and Livestock based module under FFP project.





Farmers- scientists interface

Sr. No.	Name of the Activities	No. of Activities carried out
1.	Village meetings	4
2.	Nos. of trainings	36
3.	Nos. of visit by project team members	76
4.	Nos. of Exposure visits of farmers	29
5.	Nos. of Field days	6
6.	Nos. of Innovative Farmers	18
7.	Involvement of multi-stakeholders	Scientist of Agronomy, Soil Science, Agril. Entomology, Plant pathology and Animal science

Photographs of different activities carried out under FFP



PI of the project Dr. S. G. Savalia and team member Dr. A. M. Bharadiya discussing about the trials to be continued in different modules of the project at different villages.



Introduction of inputs to the farmers under CBM (G'nut) module at different villages by PI Dr. S. G. Savalia and Co-PI Dr. A. M. Bharadiya



On Farm Training at different villages



Dr. S. G. Savalia, PI, Dr. A. M. Bharadiya Co-PI, Dr. M.S. Solanki, Dr. R. K. Mathukiya celebrate the field day at different villages

ICAR project - Mera Gao Mera Gavarav (MGMG)

No. of Team of Scientists	No. of Scientists	No. of Villages	No. of Blocks	No. of Districts	Bench Mark Survey conducted (No. of villages)
34	119	169	23	8	169





Activities undertaken

Activities organised by JAU under MGMG

Sr. No.	Name of activity	No. of activities conducted	No. of farmers participated & benefitted
1.	Visit to village by teams	355	4963
2.	Interface meeting/ <i>Goshthies</i>	280	4544
3.	Training organized	61	1485
4.	Demonstrations conducted	101	334
5.	Mobile based advisories (No of message)	3632	8078
6.	Literature support provided (No)	1833	8895
7.	Awareness created (No)	430	8096
8.	Other, if any	35	604
Total		6727	36999

Table 2 Other activities organized by JAU under MGMG

Sr.No.	Name of activity	No. /Area (ha)	No. of farmers benefitted
1.	Linkages developed with other agencies (No. of agency)	49	4431
2.	Facilitation for new varieties, seeds, technology		
	i. New varieties (No.)	241	1362
	ii. Technology (No.)	136	231
	iii. Seeds (q)	473	1305
	iv. New crops (No.)		
	v. Other	20	20



Interface meeting



On campus trainig

Radio Talks and TV Programmes

The scientists of the university delivered radio talks from time to time on various agricultural and allied subjects from All India Radio, Rajkot. Moreover, the broadcast of agricultural messages were also made from All India Radio, Rajkot. During the year, 28 such talks were delivered on different

topics related to agriculture, horticulture, agricultural engineering, fisheries, animal husbandry, etc.

In all, 34 television programmes covering various aspects of agriculture, animal husbandry, agricultural engineering, horticulture, fisheries, home science, etc. were telecast through Doordarshan Kendra, Rajkot in “*Gram Jagat*” “*Krishi Darshan*” programme for the benefit of farming community.





5.5 Publication of Literature

Sr.No	Name of Office	Publication
		Booklet/Book
1	Sardar Smruti Kendra, Junagadh	03
2	DEE Office, Junagadh	03
	Total	06

University news bulletin “*JAU News letter*” is being published regularly on quarterly basis by Directorate of Extension Education.

Establishment of AGRISNET studio and Community Radio Station (CRS)

AGRISNET studio is established with an objective to produce and disseminate agricultural technologies to the farmers through electronic media/ format. Under LIFE (Live Interaction with Farmers' through Electronic media) two innovative programs started. One, LIVE MOBILE AUDIO CONFERENCE in which

scientists at AGRISNET Studio and farmers are linked with mobile platform created by Reliance Foundation. Second program, LIVE YOUTUBE STREAMING, started from 01-01-2019, in which Live program is broadcast through YouTube. Reliance Foundation and ATMA project, Junagadh popularized these programs through their farmer related WhatsApp contacts.

The CRS is transmitting two hours program daily. It covers about 12 km area having 45 villages and Junagadh city.

Sr. No.	Subject	No. of Programs	Beneficiaries
1	Broadcasting through Radio	665	Farmers, students and people of Junagadh city and surrounding 55 villages
2	Agriculture related events/ documentaries	80	These documentaries were visited by 5,57,863 visitors.
3	Live Audio Conference through mobiles	3	155 farmers of 51 villages participated and got latest information on agricultural subjects from scientists of JAU
4	Live YouTube Broadcasting	8	A more than 20000 farmers were informed about programs by ATMA and Reliance Foundation of Junagadh. Total 7000 farmers viewed the program so far.
5	Live broadcasting of program by JAU expert on TV channel <i>Vande Gujarat 04</i>	12	Broadcasting of 60 minutes episode on agri related programs of JAU scientists thru BISAG, Gandhinagar on TV Channel <i>Vande Gujarat 04</i> .
6	Visitors	859	Farmers, students and others for participation in audio recording visited CRS station.
7	E-sahitya samput	21 sets	To popularize agricultural technologies amongst farmers, 21 sets of DVD, each containing 19 DVDs on 31 technologies and 30 video songs distributed to JAU centers and ATMA for display to farmers during various programs through out the year.
8	Photography	158 (8120 Photographs)	For documentation, publication and exhibition/ display of various activities/ events on education, research and extension education of JAU, photography and archive maintenance is carried out at AGRISNET studio.





Coordination of Extension Activities with Department of Agriculture, Horticulture, Animal Husbandry and Other Line Departments

Junagadh Agricultural University planned and organized various extension education programmes/activities in coordination with different line departments of the state. The structural linkages exist under T & V system by constituting the technical committee at district, zonal and state level. The agricultural programmes of All India Radio as well as Doordarshan were finalized by such coordinated efforts. In AGRESKO, the officers of other line departments are the members and they contribute in formulation of technical programmes as well as in finalizing the recommendations for the farmers. The functional linkages also exist under T & V system through bi-monthly workshops, pre-seasonal workshops, fortnightly training, diagnostic team, state level crop seminars/workshop, etc. The coordination exists in follow-up programmes as well as in planning of farm trials. For transfer of technologies to the farmers, the farmer's day, *krushi mela*, group discussion, film show, etc. were organized through collaborative efforts.



Kishan Kalyan Karyashala at Porbandar District

5.6 Orientation Training Programme

During the year under report, 29 scientists/teachers of the University were deputed for participating in the orientation training programmes/seminar/workshop/symposium, etc. organized within and outside the state to upgrade their knowledge and skill for improving faculty competence in respective disciplines.

Krushi Mahotsav-2018

The Mass Communication Programme, "Kishan Kalyan Karyashala" was organized by Junagadh Agricultural University for one day on at selected Taluka of Saurashtra region on 2nd May, 2018 under the aegis of Krushi Mahotsav-2018. The main aim of this campaign "Kishan Kalyan Karyashala" was "doubling the Farmers Income by 2022". More than 150 Scientists of this university communicated new agricultural technologies to more than 1,07,000 farmers, farm women, dairy farmers and other stake holders. They were advised to adopt "Integrated and Diversified Farming" including horticulture, drip irrigation, water harvesting methods, dairy, bee keeping, organic farming for increasing the crop production and productivity on sustainable basis to enhance their income.



Kishan Kalyan Karyashala at Jamanagar District





Celebration of World Soil Health Day on 5th December, 2018

On 5th December, 2018 All Krishi Vigyan Kendra working under Junagadh Agricultural University, Junagadh were celebrated World Soil Health Day in collaboration with State Agricultural Department and ATMA Project at their respective district. Different Scientists of the university and the officers of state department were participated the programme. During

this programme number of activities like Farmer-Scientist Interactions, Exhibitions on soil health management, soil sampling and soil testing demonstrations, plant nutrient deficiency diagnostics and advisories for balanced nutrition of crops, field visits and distribution of soil health cards were organized on the occasion. The detail of participants participated at varies programme are as under.



Kishan Kalyan Karyashala at Porbandar District



Celebration of World Soil health Day by KVK Pipalia

Sr. No.	Name of KVK	No. of Participants
1	KVK, Jamnagar	115
2	KVK, Targhadia (Rajkot-I)	053
3	KVK, Amreli	124
4	KVK, Khapat (Porbandar)	150
5	KVK, Nanakandhasar (Surendranagar)	111
6	KVK, Pipalia (Rajkot-II)	200
7	KVK, Gor Khijadiya (Morbi)	045
Total		798



Live Demonstration of Soil sampling"



Celebration of World Soil health Day by KVK Nana Kandhasar





Pradhan mantri Kisan Samman Nidhi 2019 launching programme

The all the KVKs of Junagadh Agricultural University organized live telecast programme “PRADHAN MANTRI KISAN SAMMAN NIDHI” for farmers with briefed the major highlights of “PM – KISAN” scheme assured as an income support to the

small and marginal farmers and other programme was “Mann Ki Baat”, telecasted through Doordarshan. Finally, the inaugural programme of national level launching of PM - KISAN scheme by Hon'ble PM from Gorakhpur, Uttar Pradesh was telecasted through DD National. In this programme listed farmers and KVK staff member actively participated.

Sr. No.	Name of KVK	No. of Participants
1	KVK, Jamnagar	230
2	KVK, Targhadia (Rajkot-I)	160
3	KVK, Amreli	286
4	KVK, Khapat (Porbandar)	385
5	KVK, Nanakandhasar (Surendranagar)	107
6	KVK, Pipalia (Rajkot-II)	100
7	KVK, Gor Khijadiya (Morbi)	054
Total		1322

GLIMPSES OF ACTIVITIES OF DIRECTORATE OF EXTENSION EDUCATION



Hon'ble chancellor Dr. O. P. Kohali inogurate Central Museum "KRUSHI DARSHNALAY" at JAU, Junagadh



Hon'ble Agriculture Minister, Shri R. C. Faladu visited JAU, Stall at Vibrant Agri. Expo Gandhinagar



Hon'ble Vice Chancellor Dr. A. R. Pathak Innogural Solar Water pump at KVK Targhadiya





Hon'ble Director ATARI Dr. Lakhansingh attend SAC meeting at KVK Nana Kandhasar



Dr. A.R.Pathak, Vice Chancellore Inougrate Technology Week at KVK Targhadiya



Agril Exhibition and Agri Fair at Surendranagar



Animal Husbandary Shibir at Chotila, Surendranagar



Pradhan Mantri Kisan Sanman Niddhi Programme at KVK Amreli



Celebration of Soil health Campaign by KVK Amreli





**Celebration of "Mahila Krushi Divas"
by KVK Nana Kandhasar**



**PM Kisan Sannman Nidhi Programme
at KVK Jamnagar**



**Farmers Visited University museum
"Krushi Darshnalay"**



**JAU Junagadh honoured Padmashree
Vallhbhai Vasarambhai Marvaniya
at JAU, Junagadh**



**Celebration of "Sardar Patel Nirvan Divas"
at JAU, Junagadh**



**Dr. A. Pathak Hon' Vice Chancellor advised
during SAC Meeting at KVK Amreli**

