



JUNAGADH AGRICULTURAL UNIVERSITY

(Accredited by ICAR, New Delhi in 2009)

A Profile



JUNAGADH AGRICULTURAL UNIVERSITY

Genesis

The agricultural education in Saurashtra region of Gujarat State started way back in 1960 with the establishment of College of Agriculture in a palatial building at Sardarbaug, Junagadh. The college was affiliated to Gujarat University, Ahmedabad from its outset till the year 1967.



College of Agriculture, Sardarbaug (1960)

Subsequently, on inception of Saurashtra University in 1968 at Rajkot, the affiliation was transferred to it. With the establishment of Gujarat Agricultural University (GAU) as an autonomous body in 1972, it was transferred to the Gujarat Agricultural University with all the activities so far carried out by the Department of Agriculture. It thus, became a constituent college of the Gujarat Agricultural University. Under the faculty of Agricultural Engineering & Technology, the College of Agricultural Engineering and Technology came into existence in 1984 at Junagadh Campus of Gujarat Agricultural University. Similarly, the College of Fisheries Science started in 1991-92 at Veraval. Junagadh Agricultural University was carved out of GAU with its splitting in to four universities on May 01, 2004. Consequently, these colleges became the constituent colleges of Junagadh Agricultural University.

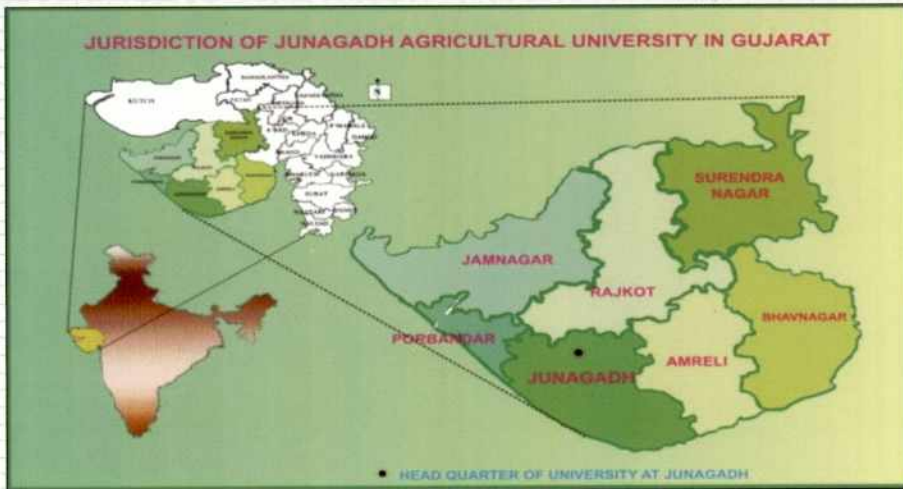


University Bhavan

The jurisdiction of this University is seven districts *viz.*, Junagadh, Rajkot, Jamnagar, Porbandar, Amreli, Bhavnagar and Surendranagar of Saurashtra region comprising nearly 32.82 per cent (6.43 million ha) area of the Gujarat State (19.60 million ha).

Geographical distribution

Saurashtra is located on the West Coast of India in Gujarat State and lies between $20^{\circ} 30'$ to 23° N latitude and 69° to 72° E longitude. It is flanked by Arabian Sea on the western side, the Gulf of Kutch in the north and Gulf of Khambhat in south-east. The Saurashtra region has an irregular high land core. The low coastal strip covered with sand and alluvium silt with the high land fringe by a 75 m contour. The altitude gradually rises to 300 m and above to form different grades of surface.



Jurisdiction of JAU

The Mandate

- To develop skilled human resources through quality agricultural education in different faculties for the benefit of various agricultural and allied sectors.
- Planning, execution, promotion, co-operation, monitoring and evaluation of research and its application in agriculture, horticulture, agricultural engineering, animal husbandry, dairy and fisheries sciences.
- To develop effective machineries to transfer knowledge and technologies to farmers and agricultural organisations through extension services.

Mission

Play pivotal role in teaching, research and extension education related to agriculture and allied sciences.

Vision

Junagadh Agricultural University intends to be one of the nation's leading universities in terms of its academic quality, advancement in technological research and enhancement of farmers' knowledge for sustainable agriculture as well as ensuring food and nutritional security to the people.

Authorisation and Governance

The Governor of the State is the Chancellor of the University. The Chancellor, by virtue of his office, as the Head of the University, when present, presides at any convocation of the University.



Meeting: Board of Management

Government of Gujarat has constituted the Council of State Agricultural Universities to bring in commonality in respect of administrative, financial, research and extension activities as also in academic programmes.

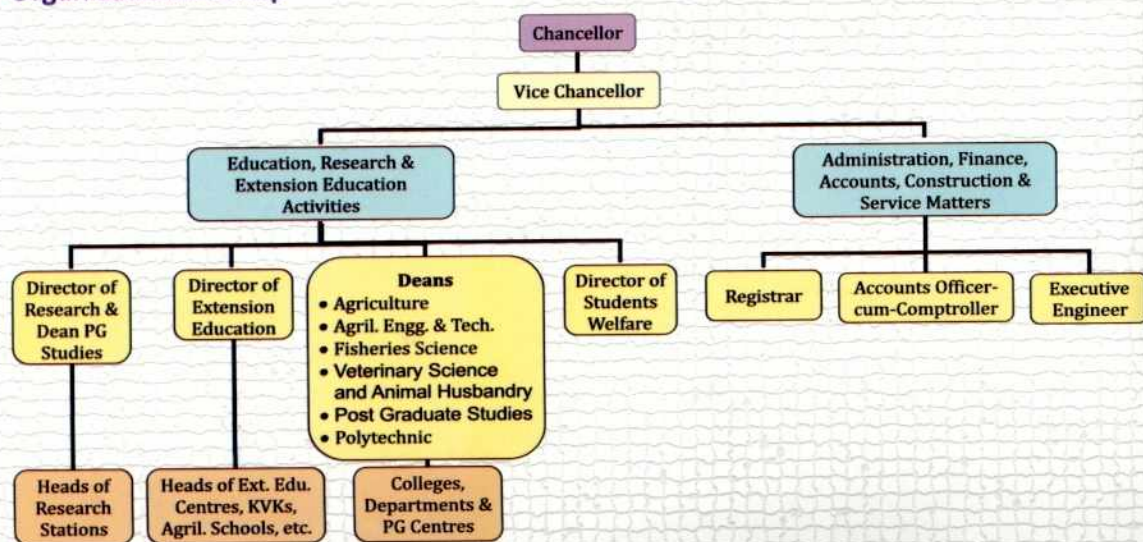
The Board of Management is the supreme policy making body of the University with the powers to appoint officers, staff and faculty. It also exercises control over the University estate.

Various Boards of Studies, through the Academic Council advise the Board of Management on academic matters. The Research Council and the Extension Educational Council advise the Board on research and extension education activities, respectively.



Meeting: Academic Council

Organizational Setup



Accreditation

ICAR has accredited the University and its three constituent colleges viz., Agriculture, Agril. Engg. & Tech. and Fisheries Science for five years from 25th June, 2009.

Seventh Annual Convocation

The Seventh Annual Convocation was held at Junagadh on February 04, 2012. Padma Shri Dr. M. H. Mehta, Former Vice Chancellor, GAU, was the chief guest. As many 265 students were awarded Under Graduate and Post Graduate degrees by Her Excellency the Governor of Gujarat and Chancellor of this university



Seventh Annual Convocation

Dr. Shrimati Kamla. Forty four Gold/Gold Plated Silver Medals and two Cash Prizes were awarded to students for their outstanding performance at examination, achieving high percentage of marks and stood first on merit in various examinations.



Seventh Annual Convocation

Academic Programmes

Junagadh Agricultural University has the far-reaching academic programmes focussed on development of self employment skills and character building of students.

Presently the University offers (Table-1) five Bachelors' degree programmes covering Agriculture, Horticulture, Agril. Engineering & Technology, Fisheries Science and Veterinary Science & Animal Husbandry and six Masters' degree programmes in 28 disciplines covering Agriculture (Agril. Economics, Agril. Extension, Entomology, Agril. Meteorology, Agronomy, Plant Physiology, Genetics & Plant Breeding, Plant Pathology, Seed Science & Technology, Soil Science & Technology, Biochemistry, Fruit Sciences, Floriculture & Land Scaping Archi, Agril. Statistics and Plant Molecule Biology & Biotechnology), Agril. Engineering & Technology (Process & Food Engg., Farm Machinery & Power, Soil & Water Engg., Renewable Energy), Fisheries Science (Fisheries Resource & Management, Fisheries Process Technology and Aquaculture), Veterinary Science & Animal Husbandry (Animal Genetics & Breeding, Animal Nutrition, Live Stock Production & Management, Animal Biotechnology and Veterinary Pharmacology & Toxicology) and Agri-business Management (M. B. A. in Agri-Business), and five Doctoral degree programmes in 25 disciplines covering Agriculture (Agril. Economics, Agril. Extension, Entomology, Agronomy, Plant Physiology, Genetics & Plant Breeding, Plant Pathology, Seed Science & Technology, Soil Science & Technology, Biochemistry, Fruit Sciences, Floriculture & Land Scaping Archi, Agril. Statistics and Plant Molecule Biology & Biotechnology), Agril. Engineering & Technology (Process & Food Engineering, Farm Machinery & Power, Soil & Water Engineering, Renewable Energy Engineering), Fisheries Science (Fisheries Resource & Management, Fisheries Process Technology and Aquaculture) and Veterinary Science & Animal Husbandry (Animal Genetics and Breeding, Animal Nutrition, Live Stock Production & Management and Animal Biotechnology).



Food Testing Laboratory



Experiential Learning Programme

Table 1 : Under Graduate, Post Graduate and Polytechnic Diploma Programmes Offered by the University

Sr. No.	College	Duration (years)	Year of Start	Annual Intake (2011-12)	Out-turn since inception of programme (Up to July 2012)
1. College of Agriculture, Junagadh					
	B.Sc. (Hons.) Agri.	4	1960	128	3705
	M.Sc. (Agri.)	2	1965	91	1186
	M.Sc. (Horti.)	2	2010	14	01
	Ph.D. (Agri.)	3	1965	22	235
	Ph.D. (Horti.)	3	2010	02	-
2. College of Horticulture, Junagadh					
	B.Sc. (Hons.) Horti.	4	2012	50	-
3. College of Agril. Engg. & Tech., Junagadh					
	B.Tech. (Agril. Engg.)	4	1984	90	731
	M.Tech. (Agril. Engg.)	2	1994	28	112
	Ph.D. (Agril. Engg.)	3	2001	03	07
4. College of Fisheries Science, Veraval					
	B.F.Sc.	4	1991	71	300
	M.F.Sc.	2	2006	23	29
	Ph.D. (Fish.)	3	2011	07	-
5. College of Veterinary Science & A.H., Junagadh					
	B.V.Sc. & A.H.	5	2008	36	-
	M.V.Sc.	2	2007	21	01
	Ph.D. (Vet.)	3	2007	06	-
6. PG Institute of Agri-business Management, Junagadh					
	MBA in Agri-business	2	2008	43	47
7. Polytechnic in Agriculture, Dhari					
	Diploma in Agriculture	3	2009	35	19
8. Polytechnic in Horticulture, Junagadh					
	Diploma in Horticulture	3	2009	35	23
9. Polytechnic in Agro-processing, Junagadh					
	Diploma in Agro-processing	3	2009	35	19
10. Polytechnic in Home Science, Amreli					
	Diploma in Home Science	3	2009	35	18

The University has a well established library, fifteen hostel blocks for boys and four for girls having capacity of about 1452 students and adequately developed sports complex which is one of the best sports complexes in the Saurashtra.



Girls Hostel for Polytechnic at Amreli



Nivedita Girls Hostel



Girls Hostel at Veraval



Vivekanand
Hall of Residence for UG Boys-CAET



PG Hostel



International Hostel

A large number of graduates and post graduates from College of Agriculture, College Agricultural Engineering & Technology and College of Fisheries Science have occupied higher ranks in different departments such as Agriculture, Horticulture, Fisheries, Forest, Police, Custom, Corporate, Civil Services, Banking Services, Pesticides, Fertilizers, Seed Industries and other Institutions. Some of the alumni of this University also reached to the rank of Vice Chancellor and Director of Campus of Gujarat Agricultural University, Director of Agriculture, Minister of Agriculture in the State of Gujarat. They have made significant contributions in upliftment of agriculture.



Inauguration of Alumni Association - College of Agriculture



Placement of Student

Academic Departments

Faculty of Agriculture: (Colleges at Junagadh & Amreli)

1. Department of Agronomy
2. Department of Agricultural Chemistry and Soil Science
3. Department of Genetics and Plant Breeding
4. Department of Bio-Chemistry
5. Department of Biotechnology
6. Department of Agricultural Entomology
7. Department of Plant Pathology
8. Department of Horticulture
9. Department of Extension Education
10. Department of Agricultural Statistics
11. Department of Farm Engineering
12. Department of Agricultural Economics
13. Department of Animal Science
14. Department of Seed Science & Technology



College of Agriculture

Faculty of Horticulture:

Faculty of Agricultural Engineering and Technology:

The ICAR accreditation Board, New Delhi and Institution of Engineers, Calcutta have accredited the B. Tech. (Agri. Engg.) degree course in 1997 and 2000, respectively. Accredited by National Bureau of Accreditation, New Delhi in 2008 for B. Tech. (Agril. Engg.) and M. Tech. (Farm Machinery and Power).

1. Department of Renewable Energy and Rural Engineering
2. Department of Processing & Food Engineering
3. Department of Farm Machinery and Power Engineering
4. Department of Soil and Water Engineering
5. Department of Agril. Engineering Extension Education



College of Agril. Engg. & Technology

Faculty of Fisheries Science:

1. Department of Fisheries Resource Management
2. Department of Harvest and Post Harvest Technology
3. Department of Aquaculture
4. Department of Fisheries and Aquatic Environment
5. Department of Basic Science and Humanities



College of Fisheries

Faculty of Veterinary Science and Animal Husbandry:

1. Department of Veterinary Anatomy and Histology
2. Department of Veterinary and Animal Husbandry Extension Education

3. Department of Veterinary Physiology and Biochemistry
4. Department of Veterinary Microbiology
5. Department of Veterinary Pharmacology & Toxicology
6. Department of Veterinary Pathology
7. Department of Veterinary Parasitology
8. Department of Veterinary Public Health & Epidemiology
9. Department of Veterinary Medicine
10. Department of Veterinary Surgery & Radiology
11. Department of Veterinary Gynaecology & Obstetrics
12. Department of Teaching Veterinary Clinical Complex
13. Department of Livestock Production Management
14. Department of Animal Genetics and Breeding
15. Department of Animal Nutrition
16. Department of Livestock Production Technology
17. Department of Instructional Livestock Farm Complex



Veterinary College

Post Graduate Institute of Agri-Business Management:



P.G. Institute of A.B.M.

Research

Junagadh Agricultural University has 30 research stations including multidisciplinary main research stations, sub centres on various crops and testing centres spread over in whole North Saurashtra & South Saurashtra Agro-climatic Zones and part of North-west & Bhal and Coastal Area Agro-climatic Zones of Gujarat. These research stations are working in the field of Agriculture, Agricultural Engineering, Animal Sciences and Fisheries for catering the needs of farmers, artisans, livestock holders, fishermen and rural masses for their upliftment. The research activities have been carried out in Crop Improvement, Crop Production, Horticulture and Agro forestry, Plant Protection, Basic Science, Social Sciences, Agricultural Engineering, Animal Science and Fisheries Science.



Table 2 : Research Stations under JAU

SN	Location	District	Category of Centre	Activities
Research Stations				
1	Oilseeds	Junagadh	Zonal & Main	Crops: Groundnut, Castor, Cotton, Wheat, Pulses. Fruit Crops : Mango, Sapota, Banana, Papaya etc. Vegetables: Onion, Garlic, Brinjal, Tomato, Okra, Cumin etc. Area: Soil science, Soil & water management, MIS system, Organic farming, Bio control, Bio technology, Bio pesticides, Food testing, Post harvest technology, Agro processing, Renewable energy, High tech horticulture, Weed science, Fisheries, Livestock research, Meteorology and Protected cultivation.
2	Wheat	Junagadh	Zonal & Main	
3	Cotton	Junagadh	Zonal & Main	
4	Pulse	Junagadh	Zonal & Main	
5	Castor	Junagadh	Zonal & Main	
6	Vegetable	Junagadh	Zonal & Main	
7	Seed Technology	Junagadh	Zonal & Main	
8	RTTC	Junagadh	Zonal & Main	
9	CBF	Junagadh	Zonal & Main	
10	Inland fisheries	Junagadh	Zonal & Main	
11	Targhadia	Rajkot	Zonal & Main	Groundnut, Cotton, Pearl millet, Sorghum, Sesame, Pulses, Castor, Dry farming.
12	Jamnagar	Jamnagar	Main	Pearl millet, Oilseed, Castor, Seed technology.
13	Kodinar	Junagadh	Main	Sugarcane, Groundnut, Wheat.
14	Amreli	Amreli	Regional	Sesame, Cotton, Soybean, Groundnut.
15	Dhari	Amreli	Regional	Forage crops, Wheat, Groundnut, Seed production of wheat, gram, castor, cumin and groundnut.
16	Mahuva (Fruit)	Bhavnagar	Main	Coconut, Sapota, Pearl millet, Onion, Garlic, Salinity, Seed production of wheat, Groundnut and pulses.
17	Mahuva (Fisheries)	Bhavnagar	Sub	Aquaculture.
18	Mangrol	Junagadh	Sub	Coconut, Ber, Sapota, Cordia, Salinity.
19	Manavadar	Junagadh	Sub	Groundnut, Wheat.
20	Khapat	Porbander	Sub	Cotton, Groundnut, Pearl millet.

21	Ratiya	Porbander	Sub	<i>Deshi</i> cotton, Sorghum, Gram.
22	Jam Khambhalia	Jamnagar	Sub	Groundnut, Pearl millet, Sorghum, Garlic.
23	Vallabhipur	Bhavnagar	Sub	<i>Deshi</i> Cotton, Gram, Sorghum, Wheat.
24	Halvad	Surendranagar	Sub	Cotton, Cumin, Groundnut.
25	Okha	Jamnagar	Sub	Fisheries.
26	Sikka	Jamnagar	Sub	Fisheries.
27	Kukada	Surendranagar	Sub	Cotton (<i>Deshi</i> and Hybrid), Groundnut, Sorghum, Sesame, Pearl millet, Pulses.
28	Talaja	Bhavnagar	Sub	Onion, Sugarcane, Pearl millet.
29	Amreli	Amreli	Sub	Bull mother of <i>Gir</i> Cow & <i>Jaffrabadi</i> buffalo.
30	Jonpur	Junagadh	Sub	Grassland.

Table 3: Crop Varieties Released during year 2004-05 to 2011-12

The University has developed 35 new crop varieties for farmers, out of which 13 varieties were released at state, national and other state level.

Crop	Variety
Groundnut	GG-8 [*] , GG-16 [*] , GJG-HPS-1, GJG-9, GJG-31, GJG-17, GJG-22
Pearl Millet	GHB-538*(Pre-rabi summer), GHB-757*, GHB-719*, GHB-744*, GHB-732* (For <i>kharif</i> & <i>summer</i> season)
Sesame	G.Til-3 (For <i>kharif</i> & <i>summer</i> season), G. Til-4
Castor	GC-3
Soybean	GJSoy-3
Wheat	GW-366*
Chickpea	GJG-3
Brinjal	JBGR-1, GJB-2, GJB-3
Okra	GO-3*, GJOH-2*, GJ-Okra-3*, GJOH-3*
Indian bean	GJIB-11, GJIB-2 (<i>papdi</i>)
Tomato	Junagadh Tomato -3
Sponge gourd	GSG-1*
Ridge gourd	GJRGH-1
Garlic	GG-4
Coconut	Hybrid T x D (Mahuva)
Custard Apple	GJCA-1



GJG - 22



GHB - 719



G. Til - 3

Varieties released at national level* and for other state^{*}.

Table 4: Recommendations / Technologies Developed

SN	Sub-Committee	Number of Recommendations made for Farmers								
		04-05	05-06	06-07	07-08	08-09	09-10	10-11	11-12	Total
I	Crop Improvement	03*	03*	06*	06*	02*	05*	06*	4*	35*
II	Crop Production	17	13	11	21	15	13	16	14	120
III	Plant Protection	14	03	08	12	08	16	05	05	71
IV	Horticulture & Agro Forestry	01	02	05	03	02	05	04	05	27
V	Agricultural Engineering	01	02	05	04	07	05	05	06	35
VI	Fisheries Science	03	-	02	01	-	02	02	01	11
VII	Animal Science	02	-	01	-	-	02	-	04	09
VIII	Basic Science	-	-	01	01	-	-	-	-	02
Total...		3*+38	3*+20	6*+33	6*+42	2*+32	5*+43	6*+32	4*+35	35*+275

*Varieties released

Table 5: Recommendations made for scientists

SN	Sub-Committee	Number of Recommendations made for Scientists								
		04-05	05-06	06-07	07-08	08-09	09-10	10-11	11-12	Total
I	Crop Improvement	01	-	-	-	-	-	-	-	01
II	Crop Production	-	-	02	02	02	03	05	-	14
III	Plant Protection	02	05	02	03	-	-	-	05	17
IV	Horticulture & Agro forestry	-	-	-	-	01	-	01	02	04
V	Agril. Engineering	01	02	-	-	-	02	01	02	08
VI	Basic Science	-	01	-	02	01	-	-	02	06
VII	Social Science	-	06	-	-	-	-	-	-	06
VIII	Fisheries Science	-	01	-	01	-	01	01	04	08
IX	Animal Science	-	-	-	-	-	-	-	03	03
Total...		04	15	04	08	04	06	08	18	67

Seed Production

A spectacular increase in the facilities for seed production, seed processing, seed storage and distribution has been witnessed with the inception of Mega Seed Project. The consequence is noticeable increase in the seed production and distribution of various crops, viz., Groundnut, Wheat, Chickpea, Pearl Millet, Castor, Sesame and other crops of Saurashtra region. Seeds were distributed under the brand name of "Sawaj Beej".



Seed Processing Unit

Production of seeds, plantlets, grafts, saplings of the horticultural crops viz., mango, sapota, guava, pomegranate, coconut, roses and other ornamental plants has also registered a consistent increase.



Table 6: Production of quality seed/planting materials of different crops at JAU for farmers of Gujarat under mega seed project

Particular	Unit	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	Total
Seed								
Breeder / nucleus seed	q	1663	1787	1652	2061	1909	1972	11044
Truthful seed	q	881	2820	1684	8106	11295	13502	38288
Total...	q	2544	4607	3336	10167	13204	15474	49332
Planting material								
Fruit crops graft	Nos.	12160	18178	22735	29672	16934	34841	134520
Fruit crops saplings	Nos.	30597	51999	70711	64666	56811	66617	341401
Seedlings	Nos.	93928	94938	97274	96491	99158	155048	636837
Total...	Nos.	136685	165115	190720	190829	172903	256506	1112758

Table 7: New Projects Sanctioned

SN	Agency	05-06	06-07	07-08	08-09	09-10	10-11	11-12	Total
1	ICAR/GOI	08	04	04	03	03	04	01	27
2	Govt. of Gujarat	23	02	01	11	01	02	05	45
3	NAIP	-	-	01	-	01	-	-	02
4	RKVY	-	-	-	07	05	05		17
5	Other Agencies	10	15	16	23	19	17	31	131
6	ICRISAT	-	-	-	-	02	-	01	03
Total...		41	21	22	44	31	28	38	225

Table 8: Human Resource Development (HRD)

SN	Particulars	04-05	05-06	06-07	07-08	08-09	09-10	10-11	11-12	Total
1	International Conference / Symposium (held in India)	05	02	15	-	-	04	05	01	32
2	Summer school/Winter school	28	20	10	71	42	111	67	67	416
3	Short term training	12	40	30	16	31	51	156	49	385
4	Group meeting /Workshop	80	148	97	115	126	120	163	156	1005
5	Seminars/Symposium/Conference	137	168	155	82	103	115	129	115	1004
Total...		262	378	307	284	302	401	520	388	2842
1	Seminar/conference/workshop/group meet/training organized by JAU	04	05	03	02	05	19	10	13	61
2	Summer school/Winter school organized by JAU	-	-	-	-	-	-	01	01	02

Table 9: Research Publication

SN	Details of publication	04-08	08-09	09-10	10-11	11-12	Total
1	International Journals	138	112	140	126	47	563
2	National Journal	349	100	92	94	54	699
3	Presented in Seminar/Symposium	370	83	86	128	57	724
4	Books	23	05	03	02	10	43
Total...		880	300	321	350	168	2019

New Research Stations

After establishment of the University, to cater the needs of farmers of the Saurashtra region, research activities were accelerated by encouraging and motivating the scientists involved in research, satisfying the needs of the research centers, developing new infrastructure and by establishing new schemes and research centers. For the purpose of region specific research work, the University has acquired nine new farms viz., Seed farm, Kodinar; Seed farm, Manavadar; Seed farm, Junagadh; Vegetable farm, Junagadh; TCD farm, Kukada; TCD Farm, Talaja; Bull mother farm, Amreli; TCD farm, Pipadia for KVK and Seed farm, Veraval as the new centre.

Geographical Indication (GI) for Gir Kesar Mango

Gir Kesar mango is registered as Geographical Indication (GI) No. 185 by GI Registration, Government of India, Chennai for Gir region. The advantage of the registration is that the legal protection will be provided to Gir Kesar mango, the demand and price will be increased, and the farmers of Kesar mango orchard surrounding Gir region will be given a logo for its identification, so that these farmers only can sell the mangoes as the Gir Kesar.



Varieties registered with PPV & FRA

- Pearl Millet : GHB-526, GHB-558, GHB-538 & GHB-719
- Sesame : G. Til-3 & G. Til-10 (Black seeded)
- Cotton : G. Cot-18

MoUs Signed

There are 19 MoUs signed by the University with national and international organizations for collaborative work in Education, Research and Extension Education are given herein;

1. Indian Council Agricultural Research (ICAR), New Delhi
2. Central Institute of Post Harvest Engineering & Technology (CIPHET), Ludhiana
3. International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Patancheru, Hyderabad (Cooperative activities)
4. M/S Jain Irrigation Systems Limited (JISL), Jalgaon, Haryana
5. Indian Meteorological Department (IMD), Puna
6. Sardar Sarovar Narmada Nigam Limited (SSNL), Gandhinagar
7. Jetpur Dyeing Association, Jetpur Dist. Rajkot, Gujarat
8. Project Directorate on Cattle, Meerut Cantt (U. P.)
9. International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Patancheru, Hyderabad (HOPE project)

10. Bhaskaracharya Institute for Space Application and Geo-Informatics (BISAG), Gandhinagar, Gujarat
11. International Crops Research Institute for the Semi-Arid Tropics, Patancheru, Hyderabad (Harvest plus project).
12. Sardar Patel Renewable Energy Research Institute (SPRERI), Vallabh Vidhyanagar, Gujarat
13. Mahindra & Mahindra Limited, Mumbai
14. Shakti Vardhak Hybrid Seeds Pvt. Ltd., Hisar, Haryana
15. University of Venda, South Africa
16. Krantiguru Shyamji Krishna Verma (KSKV) Kachchh University, Bhuj, Gujarat
17. Bhavnagar University, Bhavnagar, Gujarat
18. Gujarat Livelihood Promotion Company Ltd., Gandhinagar, Gujarat
19. Rajkot District Co-operative Milk Producers Union Limited (Rajkot Dairy), Rajkot, Gujarat

All India Coordinator Research Projects

Total 21 AICRPs undertaken by the University are given herein;

- Pearl Millet
- Wheat
- Groundnut
- Castor
- Sesame
- Cotton
- Vegetable
- Chickpea
- Pigionpea
- Nematodes
- Data recording Unit
- Long Term Fertilizer Experiments
- Cropping System Research(Sub)
- Dry Land Agriculture
- NSP-BSP of annual oil seed crops
- NSP Seed Technology Research
- Post Harvest Technology
- Application of Plastic in Agriculture
- Ground Water Utilization
- Buffaloes
- Germ Plasm unit (GIR)

Visit of Director General of ICAR during August 7-8, 2011

Dr. S. Ayyappan, Director General (ICAR) and Secretary (DARE), New Delhi visited the Fisheries Research Station, JAU, Okha and Main Pearl Millet Research Station, JAU, Jamnagar during August 7-8, 2011.





Visit of South Africa Delegation during September 12-16, 2011



Visit of Punjab Agricultural University, Ludhiana delegation during July 16-19, 2012



Visit of Tanzania delegation during December 08, 2010

Field visit of Hon'ble Minister of Agriculture

Field visit of Hon'ble Minister of Agriculture, Shri Dileep Sanghani with all Vice Chancellors of Agricultural Universities of Gujarat on February 04, 2012.



Visit of Delegation from South Africa during November 17-24, 2012

Extension Education

At present, Agriculture Diploma School, two centre offering certificate courses, Training & Visit Scheme, Sardar Smruti Kendra, Farm Advisory Service Centre, six Krishi Vigyan Kendras, Extension Programme for Fisheries, Agricultural Technology Information Centre (ATIC), Centre of Communication (COC), four Transfer of Technology (TOT) centres and Information & Reception Centre (IRC) are functioning in the University. Out of which, all the six KVKs, Extension Programme for Fisheries, ATIC, COC, TOT and IRC were recently started after establishment of the University. The Diploma Schools were converted into Polytechnics and new Home Science Polytechnic started in 2009-10.

- (1) Agriculture School, Halvad.
- (2) Centres for Certificate Courses:
 1. School of Baking, Junagadh
 2. Mali (Gardener) Training Centre, Junagadh
- (3) Training & Visit Scheme, Junagadh
- (4) Sardar Smruti Kendra, Junagadh
- (5) Farm Advisory Service Centre, Junagadh
- (6) Krishi Vigyan Kendra:
 1. Krishi Vigyan Kendra, Targhadia (Rajkot)
 2. Krishi Vigyan Kendra, Jamnagar
 3. Krishi Vigyan Kendra, Amreli
 4. Krishi Vigyan Kendra, Khapat (Porbandar)
 5. Krishi Vigyan Kendra, Nana Kandhasar (Surendranagar)
 6. Krishi Vigyan Kendra, Pipalia (Rajkot)
- (7) Extension Programme for Fisheries, Okha
- (8) Agricultural Technology Information Centre (ATIC), Junagadh
- (9) Centre of Communication (COC), Junagadh
- (10) Transfer of Technology (TOT) Centre:
 1. Transfer of Technology (TOT) Centre, Junagadh
 2. Transfer of Technology (TOT) Centre, Targhadia
 3. Transfer of Technology (TOT) Centre, Amreli
- (10) Information and Reception Centre, Junagadh



Sardar Smruti Kendra, Junagadh



Krishi Vigyan Kendra, Amreli



AGRISNET Studio

Table 10: Extension activities

Name of Centre	04-05	05-06	06-07	07-08	08-09	09-10	10-11	11-12	Total
Sardar Smruti Kendra	78 (41164)	68 (53509)	181 (519127)	75 (43237)	93 (989502)	159 (3158154)	93 (1082038)	82 (1554071)	829 (7440802)
Krushi Vigyan Kendra									
Training for farmers	39 (1025)	239 (6754)	316 (10885)	508 (12957)	459 (11401)	447 (17397)	495 (14292)	456 (15451)	2959 (90162)
Training for Extension Functionaries	--	239 (6757)	322 (10613)	21 (521)	14 (435)	7 (314)	15 (460)	19 (631)	637 (19731)
Other activities	228 (111100)	461 (160644)	807 (524285)	522 (70773)	256 (86875)	825 (33230)	1005 (138361)	5284 (70417)	9388 (1195685)
T & V	13 (221)	16 (317)	14 (361)	04 (66)	06 (143)	07 (193)	06 (250)	09 (302)	75 (1853)
COC	-	10	21	08	04 (34)	109 (6227)	58 (1199)	49 (1233)	259 (8693)
Diploma Certificate Courses	316	300	262	224	209	238	207	198	1954

Note: Figures in parenthesis indicate no. of beneficiaries.



Khedut Shibir under COC and demonstration of Bakery product

Krishi Mahotsav

Hon'ble Chief Minister of Gujarat, Shri Narendra Modi inaugurated month-long Krishi Mahotsav 2012 at Manavadar in Junagadh district on May 06, 2012



Students' Welfare

The University authority is always looking forward to the welfare of the students through different activities like sports, cultural, spiritual programmes, NSS, health, adventure, educational tour with a view to develop personality, character and high human values in UG & PG students of the University.

The campus interviews were arranged for placement of students of different colleges. Total 19 inter-collegiate sports and cultural / literary activities organised by the University every year. The University students participated in All India Inter Agricultural University Sports and Games Meet from 2004-05 to 2011-12. Students also participated in SAU's (Gujarat) Inter Agril. University sports tournaments and so also in Cultural-Literacy Competition at State and National level. Students were also participated in Inter University National Debate Competition, All India Agricultural Universities Youth Festival and Basic Rock Climbing Course. Under NSS, several programmes were organised. Educational tours were arranged for the students of College of Agriculture, College of Agricultural Engineering & Technology and College of Fisheries Science. Various scholarships were availed to the students. About 58 spiritual and health awareness programmes were organised.



Athletic Competition of Students



Cultural Program of Students

Table 11: Student activities carried out during 2004-05 to 2011-12

Activity	04-05	05-06	06-07	07-08	08-09	09-10	10-11	11-12	Total
Sports (IC + IU)	10 (310)	14 (324)	13 (318)	15 (351)	14 (436)	14 (602)	14 (608)	14 (614)	108 (3563)
Cultural / Literary	-	03 (30)	03 (35)	10 (115)	13 (105)	14 (143)	15 (148)	14 (157)	72 (733)
Placement	13	51	44	59	55	85	119	129	555
NSS	11 (468)	11 (327)	11 (584)	07 (586)	32 (468)	44 (722)	103 (993)	313 (715)	532 (4863)
Gold Medal	10	37	28	30	31	32	44	44	256
Cash Prize	-	-	-	-	02	02	02	02	08
Scholarship	06 (08)	06 (09)	06 (57)	06 (57)	07 (124)	06 (150)	08 (180)	08 (187)	53 (772)
Students' training	-	-	-	02 (89)	02 (79)	01 (50)	02 (80)	01 (38)	08 (336)
Special Lecture / Programme	02	09	05	15	05	08	08	06	58
Adventure	10	14	12	17	11	51	51	77	243

* Figure in the parenthesis indicates the no. of participants, enrolled NSS volunteers, and scholarship recipients.



Various Sports Activities

Finance and Accounts

Major sources of finance are Government of Gujarat, Government of India, ICAR and other agencies which sanctioned grant through different schemes.

Table 12: Year wise Expenditure (₹ in lakh)

Particulars	04-05	05-06	06-07	07-08	08-09	09-10	10-11	11-12
Education	904.85	1207.90	1631.51	2051.20	2632.79	3825.69	4969.40	5599.12
Research	1606.14	2265.91	2744.78	2060.91	3040.73	2854.97	4835.67	6701.62
Extension Education	178.14	447.16	571.54	1098.97	2900.63	1517.54	2310.52	795.17
Administration	258.31	335.42	343.47	365.26	385.89	385.89	686.86	681.30
Construction	38.17	101.18	280.58	120.31	15.68	15.68	1121.50	1205.37
Total	2985.61	4357.57	5571.88	5696.65	8975.72	8599.77	13923.95	14982.58

Information Technology

Junagadh Agricultural University (JAU) offers and maintains the various network services such as internet, e-mail, reference databases and literature search through internet and CD-ROM through campus area network. Network services are strengthened by procuring 4 MBPS Leased Line Internet Connectivity from BSNL and two broadband connectivity of 10 MBPS each under National Mission on Education through Information and Communication Technology (NME-ICT) Scheme of Ministry of Human Resources Development, Government of India. The university is also connected to Gujarat State wide Area Network (GSWAN), Gandhinagar through radio connectivity.

Junagadh Agricultural University has its website having the URL of www.jau.in. This web site includes various aspects and activities of Junagadh Agricultural University like Administration, Education, Research, Extension Education, Farmers' Corner, Library facility, important announcements/events, tenders, advertisements, RTI, JAU publications etc. The information in vernacular language are also kept on university website with the aim at providing information to the farmers on various activities of the university in the agriculture field so that the farmers may be able to make proper and timely use of the available information.

As a part of the e-governance, various online programmes were developed at university level by utilizing meagre facilities of staff. These programmes include online bill entry, online tour programme, online provident fund and online university circulars. All the sub centres of university are connected to university LAN by virtual

private networking (VPN) for availing the benefit of these online programmes as well as library database services for research reference.

The smooth functioning of the IT Cell made a remarkable impact in the work culture and mind-set of students and scientists/teachers in tune with the technological developments brought in by IT revolution.

For online access of Indian/Foreign journals a facility provided by ICAR through Consortium for e-Resources in Agriculture (CERA) is available. An online doctoral theses facility of All India Agricultural University from HAU, Hissar through Krishi Prabha is also available. In addition to 11 e-books other CD-ROM databases like CAB ABSTRACT, AGRICOLA, AGRIS with latest data are available for user. Full time internet, scanning and CD writing facilities are available for the students in the Cyberary at University Library. University library with double storied stack room with capacity of 1.5 lakh books possesses around 45000 books. Library also provides 52 Indian & 11 Foreign journals and around 16000 back volumes.



ATIC

Manpower

Sanctioned man power of the University in Teaching, Research and Extension Education.

Table 13: Manpower details

(As on 01.12.2012)

Particulars	Faculty	Technical	Administrative	Class-IV	Total
Education	300	158	244	156	858
Research	207	282	144	233	866
Extension Education	69	81	30	18	198
Total...	576	521	418	407	1922
Filled	392	409	290	317	1408
Vacant	184	112	128	90	514

Estate Management

The construction & its related works, repairs & maintenance of buildings & roads, water supply, maintenance of drainage system, street light, electrification,

repairing of electrical faults, all these works are looked after by the Executive Engineer of the University.

Infrastructure

The University has developed unique infrastructural facilities and specialized facilities for training. This has been instrumental in taking up advanced research in several areas and training to graduate students in new and emerging areas of modern biology. The biotechnology, food quality testing lab, tissue culture lab, farm machinery and inland aquaculture facilities developed for research and training are unique in the State. Likewise, adequate infrastructure has been developed in the form of seed processing unit, green-houses and poly-houses. The University has established museums including live museums and botanical gardens for the benefit of both the visiting farmers and students. Air conditioned Auditorium, Seminar Halls and Conference Halls as well as spacious Community Hall are the useful infrastructural facilities available.



Library



Educational museum



VIP Guest house



Auditorium



Health Centre



Krushikar Atithi Bhavan

Linkages

Total 81 linkages are established for teaching, research and extension activities with international 5, ICAR 13, National Institutes 15, State Universities 8, State Level Agencies 26 and others institutes 14 by the University.

Major Thrust Areas of Research

Crop Improvement

- Genetic enhancement and population improvement in diploid and tetraploid cotton for development & high yielding Bt cotton hybrids.
- Development of genotypes for early and late heat tolerance in wheat for climate change.
- Identification and utilization of resistance sources against major biotic and abiotic stresses in major crops of saurashtra.
- Development of high yielding cultivars amenable to machine harvesting in the major crops of Saurashtra region.
- Collection and evaluation of germplasm of medicinal & aromatic plants.

Bio-technology

- Understanding the physiological, genetic and molecular mechanisms underlying abiotic & biotic stress tolerance.
- Cloning and characterization of novel genes of agronomic importance.
- DNA fingerprinting of varieties released by JAU.

Basic Science

- Development of tissue culture protocols for important field crops, vegetables, fruits, medicinal & aromatic crops.
- Endow the farmers with quality planting materials.
- Identification of morphological, physiological and biochemical parameters for rapid screening of drought and salinity resistant crop genotypes.
- Establishment of functional seed testing laboratory and model of small scale seed processing plant.

Plant Protection

- Research on beneficial microbes and insects for control of pests and diseases.
- Development of guideline for incorporation of non-chemical methods and integrated pest and disease management.
- Evaluation of new micro-molecules and optimization of dose of pesticides with reference to pest ecology.

Natural Resource Management

- Technology for organic farming including bio-fertilizer & integrated plant nutrient management.
- Development of dry farming and water management technologies.
- Integrated weed management.

- Technologies for improvement/ restoration of soil health.
- Stability in production system under the changing climate.

Horticulture

- Centre of excellence for research on mango.
- High-technology research in banana, papaya, guava, sapota and custard apple
- Efficient technologies for protected cultivation.
- Strengthening of post harvest technology and value addition.

Agricultural Engineering

- Development of Renewable Energy technologies and efficient utilization.
- Reduction in cost of cultivation and drudgery through farm mechanization.
- Centre for Remote Sensing and Geo-informatics in Agriculture.
- Watershed development and management.
- Management of coastal sodic and saline area programme.
- Development of post harvest technology for cereals, oilseeds and pulses.

Fisheries

- Enhancement of fish production and productivity.
- Maintaining the sustainability of aquatic system and developing new value added products.

Veterinary Science & Animal Husbandry

- Conservation and improvement of animal genetic resources viz., Gir cattle, Jaffrabadi buffalos, Kathiawadi horse and Zalawadi and Gohilwadi breeds of goats.
- Research for increasing yield and minimizing production risks through application of available biotechnologies viz., cryo-preservation of sperm and ova, embryo-transfer technology.
- Clinical diagnosis of diseases of livestock and wild animals.

Social Science

- Research on sustainable indigenous technological knowledge (ITK) of agriculture & allied fields.
- Export potential for major horticultural commodities from Gujarat.
- Cost of cultivation/ production of major horticultural crops.
- Economic evaluation of irrigation project.
- Improvement in the efficiency of field experiments.

JUNAGADH AGRICULTURAL UNIVERSITY
JUNAGADH - 362 001 (GUJARAT-INDIA)

CONTACT DETAILS

Designation	Telephone	Fax	E-mail
Vice Chancellor	+91-285-2671784	+91-285-2672004	vc@jau.in
Registrar	+91-285-2672346	+91-285-2672482	registrar@jau.in
Director of Research & Dean, P.G Studies	+91-285-2670131	+91-285-2674064	dr@jau.in
Director of Extension Education	+91-285-2672653	+91-285-2672653	dee@jau.in
Director of Student Welfare	+91-285-2670922	+91-285-2670922	dsw@jau.in
Comptroller-cum-Account Officer	+91-285-2671168	+91-285-2670118	comptroller@jau.in
Director of Information Technology	+91-285-2676496	+91-285-2676496	dit@jau.in
Principal, College of Agriculture	+91-285-2670289	+91-285-2670289	agricol@jau.in
Principal, College of Agricultural Engg. & Technology	+91-285-2671018	+91-285-2671018	caet@jau.in
Principal, College of Fisheries Science, Veraval	+91-2876-221053	+91-2876-242052	cof@jau.in
Principal, College of Veterinary Science & A.H.	+91-285-2670722	+91-285-2670722	covsah@jau.in
Principal, PG Institute of Agri. Business Management	+91-285-2670803	+91-285-2670803	pri.pgiabm@jau.in
Principal, Polytechnic in Agriculture, Dhari	+91-2797-221112	+91-2797-221112	poly.agri.dhr@jau.in
Principal, Polytechnic in Horticulture, Junagadh	+91-285-2670204	+91-285-2670204	poly.horti.jnd@jau.in
Principal, Polytechnic in Agro-processing, Junagadh	+91-285-2672095	+91-285-2672095	poly.agpro.jnd@jau.in
Principal, Polytechnic in Home Science, Amreli	+91-2792-227122	+91-2792-227122	poly.homsci.amr@jau.in

www.jau.in

