

ANNUAL REPORT

2014 - 15



COLLEGE OF AGRICULTURE,
NAVSARI AGRICULTURAL UNIVERSITY,
WAGHAI - 394 730



1. VISION

A top class institution of learning dedicated to excellence in Agricultural sciences, industrial technology and allied fields, research and development, extension and training for global competitiveness and cooperation.

2. MISSION

To train manpower needed for Agricultural development of the state of Gujarat. In addition to this paramount mission, research and extension education will also be the priority in near future.

3. OBJECTIVES

- To impart higher education in Agricultural Science and Technology.
- To create cadre of Agricultural professionals to meet the demand of Agriculture sector in general and tribal sector in particular.
- To prepare ample human resource to carry out basic and modern applied research in Agriculture and Allied fields.
- To cater need for knowledge workers in tribal society of the forest area.

4. YEAR OF ESTABLISHMENT

- 2012-13

5. FUNDING AGENCY

- Tribal sub-Plan, Department of Agriculture, Government of Gujarat (BH 12402)

6. DEPARTMENTS

Agronomy

Ag. Chem & Soil Sci.

Horticulture

Entomology

Pl. Pathology

Genetics & Plant Breeding

Agril. Econ.

Extension Edu.

Animal Science

Stat. & Comp. Sci.

Agril. Engg.

English

Physical Education

7. INSTRUMENTS AVAILABLE

Sr. No	Instruments and Appliances	Units	Sr. No	Instruments and Appliances	Units
1.	Distillation Assembly	1	27.	Laminar Flow	1
2.	Spectrophotometer	2	28.	PCR	1
3	Flame Photometer	2	29.	Magnetic stirrer with hot plate	1
4.	Mechanical shaker	1	30.	Ion analyzer	1
5.	Hot water bath	1	31.	Shaker mechanical analysis	1
6.	Top Pan/Monopan balance	3	32.	Digital burette	1
7.	Nitrogen Gel plus Analyzer	1	33.	Graphite furnace	1
8.	Hot Air Oven	1	34.	Acid dispenser	1
9.	Hot plate	1	35.	Brass cup	1
10.	Incubator	1	36.	Plant Protection equipments	1
11	Orbital shaker	1	37.	Insect show case and cabinets	1
12.	Deep Freezer	1	38.	Insect traps	1
13.	Colony counter	1	39.	Dissecting microscope	1
14.	Student Microscope	10	40.	Vortex mixture	1
15.	Trinocular zoom Microscope with video attachment	3	41.	Grinder mixture	1
16.	Hot plate with magnetic stirrer	1	42	Digital Camera	1
17.	Water bath	1	43.	Computer	45
18.	Weighing balance	1	44.	LAP TOP	2
19.	Wire loop sterilizer	1	45.	Laser Printer	4
20.	Digital pH meter	1	46.	Scanner	2
21.	Refrigerator	1	47.	Fax machine	1
22.	Digital Refractrometer	1	48.	LCD Projector	3

23.	Digital Vernier calipers	1	49.	Video Projection screen	2
24.	PP cap sealer	1	50.	Xerox machine	2
25.	Crown corking machine	1	51.	RO Water system	3
26.	Pulper	1	52.	Audio Visual system	1
Sr. No	Instruments and Appliances	Units	Sr. No	Instruments and Appliances	Units
53.	Gas connection	1	68.	Petrol engine	1
54.	Gymnasium Instruments, appliances including Body analyzer	1 set	69.	Diesel engine	1
55.	Weighing machine digital	1	70.	Centrifugal pump	1
56.	Body analyzer	1	71.	Submersible pump	1
57.	Line maker machine	1	72.	Vertical turbine pump	1
58.	Pitch roller	2	73.	Green houses	1
59.	TT table	1	74.	Drip irrigation system set	1
60.	Tractor trailer	1	75.	Sprinkler irrigation set	1
61.	Rotovator	1	76.	Solar cooker	1
62.	Electric fan	1	77.	Biogas plant	1
63.	Cultivator	1	78.	Wind mill	1
64.	Automatic seed cum fertilizer drill	1	79.	Disc plough	1
65.	Sing board	1	80.	Lawn mower	1
66.	Dumpy level with tripod	1			
67.	Surveying and levelling instrument	1			

8 . ACADEMIC PROGRAMME

UG	B.Sc.(Hons.) Agriculture	8 Semesters
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9. STUDENTS ENROLLED

Category	2014-15			D to D		
	M	F	Total	M	F	Total
Gujarat Board						
SC	02	01	03	01	00	01
ST	01	06	07	02	00	02
SEBC	08	04	12	04	00	04
General	18	08	26	03	00	03
Other Board						
Sub total	29	19	48	10	00	10
Grand Total	31	20	51	10	00	10

10. STAFF POSITION (As on 31.03.2015)

Faculty Name	Designation	Discipline	Contact details
Dr. Z. P. Patel	Principal	Entomology	Tel. No.- 02631 246688 caw@nau.in, zprin@nau.in
Dr. P. P. Chaudhary	Professor & Research Scientist	Agril. Botany	Mo. 9427163653 ppchaudhari@nau.in
Dr. S.P. Saxena	Professor & Head	Entomology	Mo. 9427108412 saxenasushil2003@gmail.com
Dr. A. P. Patel	Associate Professor	Agronomy	Mo. 9427155512 arya_sunrise@yahoo.co.in
Dr. R. F. Chaudhary	Associate Professor	Plant Pathology	Mo. 9426897839 rfchaudhary@yahoo.co.in
Dr. N.M. Chauhan	Associate Professor	Agril. Extension	Mo. 09427868668 nikulsinh_m@nau.in
Dr. C. J. Patel	Associate Professor	Agril. Entomology	Mo. 9725006536 cjpatel66@yahoo.co.in
Prof. K. B. Patel	Assistant Professor	Physical Instructor	Mo.99139 07794 knlptl01@gmail.com
Prof. V. T. Shinde	Assistant Professor	Soil & Water Engineering	Mo.8128984318 vipulshinde123@gmail.com
Prof. H. P. Patel	Assistant Professor	Agril. Chemistry & Soil Science	Mo.98792 91253 hiren_agri36@yahoo.co.in
Prof. R. P. Bambharolia	Assistant Professor	Microbiology	Mo.9979502166 bambharolia_raju@yahoo.co.in
Dr. Yogesh Garde	Assistant Professor		Mo. 09595416021 y.garde@yahoo.co.in
Dr. Manju Singh	Assistant Professor	Genetics & Plant Breeding	Mo.8469101586 manju23icar@gmail.com

Dr. B. Chakraborty	Assistant Professor	Horticulture	Mo.8238792464 bchakraborty@nau.in
Prof. V. S. Thorat	Assistant Professor	Agri. Economics	Mo.8469552697 vishal.lotus@gmail.com
Prof. P.I. Solanki	Assistant Professor	English	Mo. 9427549029 pragnesh237_solucky@yahoo.com
Dr. V.P. Prajapati	Assistant Professor	Plant Pathology	Mo. 9601278020 virpathologist@rediffmail.com
Dr. Rahul Pisal	Assistant Professor	Agronomy	Mo. 9974746445 rrpagri@gmail.com
Prof. Y.V. Naghera	Assistant Professor	Genetics & Plant Breeding	Mo. 9601104034 yvnaghera@gmail.com
Dr. H.H. Patel	Assistant Professor	Agronomy	Mo. 9998820113 hiren_agron@yahoo.co.in
Prof. T.U. Chaudhari	Assistant Professor	Mathematics	Mo. 9601649968 tejash05@gmail.com
Prof. D.M. Damasia	Assistant Professor	Entomology	Mo. 9979006676 dilipdamasia_2008@yahoo.com

11. INFRASTRUCTURE DEVELOPMENT

- After the establishment of College of Agriculture at Waghai, new building of Polytechnic in Agriculture (presently housing College of Agriculture) and the girls hostel have been completed. The college has been shifted to the new building. Similarly, girls have been shifted to their new hostel..
- Construction of new building of College of Agriculture has also begun .
- The polytechnic building consists of ultra-modern auditorium with all necessary AV aids.
- Computer laboratory has been established in the new polytechnic building for students so as to prepare them for IT lectures and practicals.
- Modern laboratories of Entomology, Plant Pathology, Soil Science and Agricultural Chemistry, Genetics and Plant

Breeding and Horticulture have been established in the new building. .

- Drinking water problem of students has been solved by installation of Reverse Osmosis fitted water cooler in hostels as well as in the mess.

INFRASTRUCTURAL FACILITIES AT NAU; WAGHAI







INTER COLLEGIATE KABADDI TOURNAMENT



INAUGURATION OF COLLEGE BUILDING AND GIRLS HOSTEL BY AGRICULTURE MINISTER, GOVT OF GUJARAT



ANNUAL DAY CELEBRATION



12. ORIENTATION PROGRAMME



Immediately after admission of students in First semester of B.Sc.(Hons.) Agriculture four years degree programme, orientation programme was organized by the college so as to acquaint them with educational system in Agriculture and Agricultural University. The students attended the programme displaying various skills and arts which they inherited from school days. All the technical and non-technical details of this new system which is quite distinct from traditional universities and their respective schools and boards were explained by the principal, academic Incharge and staff members of the college. The details of the hostel and mess facilities were also explained to each and every student. The students were also explained about the job prospects and educational career in Agriculture after completing their degree programme.

13. FINANCIAL POSITION

Sr. No.	Particulars	Grant sanctioned (Rs)	Expenditure (Rs)	Balance/Unspent amount (Rs)
1.	Pay and allowances including T.A.	1,91,07,000	1,90,97,754	9246
2.	Recurring	45,50,000	45,49,893	107
3.	Non-recurring	62,80,000	62,79,975	25
4.	Civil works	00.00	00.00	00.00
	Total	2,99,37,000.00	2,99,27,622	9378.00

14. PUBLICATIONS

(A) Research Papers

1. Chandrabahan Patel, Singh, Y.V., Garde, Y.A., Maurya, P.K. and Singh, S.M. (2014). Assessment of infiltration rate and models under high and low input crop management system in inceptisols of Eastern Uttar Pradesh. *Journal of Soil and Water Conservation*, 13(1): 47-52.
2. Desai, H.R., Sojitra, R.S., Patel, C.J., Maisuria, I.M. and Kumar, V. (2014). Field evaluation for bioefficacy of fenpyroximate 5EC against leaf hopper and spider mite infesting cotton and their safety to natural enemies. *Adv. Res. J. Crop Improvement*, 5(2): 172-75.
3. Dhekhale, B.S., Sheraz Mahdi, S., Garde, Y.A. and Sahu, P.K. (2014). Parametric and non-parametric regression models for area, production and productivity of Rice (*Oryza sativa*) crop. *Int. J. Agril. Stat.*, 10(1): 211-216.
4. Hemant Sharma, Saxena, S.P. and Bana, J.K. (2014). Screening of mango (*Mangifera indica* L.) germplasm against powdery mildew in South Gujarat. *Journal of Pl. Dis. Sci*, 9(1): 94-97.
5. Pawar, D.M., Sabalpara, A.N., Prajapati, V.P. and Yadav, P.M. (2014). Study of loss assessment of grain and fodder yield of Finger millet against Foot rot (*Scelerotium rolfsii* Sacc.) disease. *Trends in Biosciences*, 7(21): 3354-3355.
6. Pawar, D.M., Sabalpara, A.N., Prajapati, V.P. and Yadav, P.M. (2014). Invitro evaluation of phytoextracts on the growth of *Sclerotium rolfsii* Sacc. Causing Foot rot disease in Finger millet crop. *Trends in Biosciences*, 7(21): 3356-3358.
7. Patel, R.C., Sabalpara, A.N., Tande, D.H., Prajapati, V.P., Patel, V.R. (2014). Effect of weather parameters on incidence of chickpea wilt caused by *Fusarium solani* (Mart) Sacc., *Bioinfolet*, 11(1A): 132-133.
8. Patel, R.C., Sabalpara, A.N., Tande, D.H., Prajapati, V.P. and Patel, V.R. (2014). Evaluation of different organics

- against *Fusarium solani* (Mart) Sacc. causing wilt of chick pea (*Cicer arietinum*), Bioinfolet, 11(1A): 134-135.
9. Shukla, A.K, Garde, Y.A. and Jain Ina (2014). Forecast of weather parameters using time series data. Mausam, 65(4): 509-520.
 10. Sushil Kumar, Chavan, S.M. and Kabade, K.H. (2014). A report of Spittle bug, *Clovio* sp. (Aphrophoridae: Homoptera) infesting teak in Gujarat. Insect Environment, 20 (2): 32-34. Sushil Kumar, Desai, H.R., Patel, Z.P., Bhatt, B.K. and Naik, J.R. (2014). Impact of climate variability and crop phenology on abundance of mango hopper. Indian J. of Applied Entomology, 28(2): 106-116.
 11. Tandel, D.H., Sabalpara, A.N., Patel, R.C., Prajapati, V.P. and Patel, V.R. (2014). Antagonistic effect on growth and sclerotial formation of *Macrophomina phaseolina* (Tussi) Goid causing Green Gram leaf blight. Bioinfolet, 11(1A): 89-91.
 12. Tayade, Shailesh, Patel, Z.P., Susheel Singh and Phapale, A.D. (2014). Dissipation of hexaconazole in/on mango. IOSR Journal, pp. 1-5.
 13. Tayade, Shailesh, Patel, Z.P., Susheel Singh and Phapale, A.D. (2014). Effect of weather parameters on pest complex of banana under heavy rainfall zone of South Gujarat. Journal of Agrometeorology, 16(2): 222-226.

(B) Popular articles

1. Patel, Z.P., Patel, C.J. and Patel, C.C. (2014). Chiku Ni Jeevato (Gujarati) in Souvenior "Bagayati Pakon Mein Jeevato Nu Sankalit Vivasthapan published by B.A. College of Agriculture, Anand Agricultural university, Anand, pp. 8:27-29.