

DEPARTMENT OF AGRONOMY
COLLEGE OF AGRICULTURE, NAVSARI AGRICULTURAL UNIVERSITY
BHARUCH CAMPUS, BHARUCH

1. INTRODUCTION:

Department of Agronomy is one of the components of College of Agriculture. Agronomy discipline has major share with maximum credit load at U.G. level and Polytechnic levels as well as agronomist involved at one or the other stage of education, research and extension. This department is also associated with research activities wherein several field experiments on various mandate crops (cotton, pulse crops, oilseed, cereals and spices) are being conducted.

2. OBJECTIVES:

1. To upgrade the knowledge, skill and different principles in education and research in agronomic field.
2. To impart the education at Polytechnic in Agriculture, U.G. and P.G. level.
3. To conduct the various research projects given by ICAR, state government and other agencies.
4. To develop the agronomic technologies for farmers and scientific communities.
5. To transfer the developed technologies to farmers through literature distribution, popular articles in newspaper and training etc.

3. MAJOR ACTIVITIES:

1. Teaching:

(a) Polytechnic in Agriculture:

Total 11 courses with 24 (13+11) credit loads are being taught from first to eight semesters Polytechnic in Agriculture

(b) Undergraduate:

Total 12 courses with 23 (13+10) credit loads are being taught from first to eight semesters B.Sc.(Hons.)in Agriculture.

(c) Post graduate teaching: Total 9 courses with 25 (18+7) credit loads are being taught from first to third semesters M.Sc. in Agriculture.

(d) Other academic activities:

Practical crop production programme: Considering the principles of "earn while you learn" all the students of III and IV semester of Polytechnic in Agriculture as well as V and VI semester B.Sc. (Agri.) class are being allotted the land during *kharif* and *rabi* / summer seasons, wherein they have to grow green gram / pigeon pea (seed programme) crops and to carry out all the agricultural operations themselves right from sowing to harvesting with an objective to learn about the agronomic practices and economics of specific crop.

2. Research:

This department is also associated with research activities wherein several field experiments are being conducted year around under various research projects working under this department.

3. Extension:

- Department is imparting training to the extension workers / officers of department of agriculture Gujarat state, Sugar factories officers / field staff; Gujarat Land Development Corporation officers/field staff and farmers brings by various NGO to develop their skill for improving crop production.

- Department staff is also actively participating in Krushi Mahotsav, Krushi Mela, Khedut Din, Khedut Shibir, Seminar, Radio and television programme time to time.
- Department is also imparting training to the students of various rural academic institutes.
- This department is also guiding farmers through publishing press notes in daily newspaper on the agronomic aspects of major crops of this zone.

4. MAJOR ACHIEVEMENTS

1. Teaching:

(a) Polytechnic in Agriculture

To teach following subjects to the students of Polytechnic in Agriculture from first to sixth semester.

Courses offered during odd semester:

Sr. No.	Semester	Course Number	Title of course	Credits
1	1 st	Agron.1.1	Agricultural Heritage	1+0
2	1 st	Agron.1.2	Fundamentals of Agronomy	3+1
3	3 rd	Agron.3.4	Crop Production Technology-I (<i>Kharif</i> Crops)	2+1
4	3 rd	Agron.3.5	Practical Crop Production-I (<i>Kharif</i> Crops)	0+1
5	5 th	Agron.5.8	Principles of Weed Management	1+1
6	5 th	Agron.5.9	Principles of Water Management	2+1

Courses offered during even semester:

Sr. No.	Semester	Course Number	Title of course	Credits
1	2 nd	Agron 2.3	Farming System and Farm Management	1+1
2	4 th	Agron.4.6	Crop Production Technology –II (<i>Rabi</i> Crops)	2+1
3	4 th	Agron.4.7	Practical Crop Production –II (<i>Rabi</i> Crops)	0+1
4	6 th	Agron.6.10	Principles of Organic Farming	1+1
5	6 th	Agron.6.11	Vermicompost	0+2

(b) Under graduate [B.Sc. (Hons.) in Agriculture]

To make the theory and practical note books for U.G. courses are being taught from first to eight semesters B.Sc. (Hons.) in Agriculture.

Under graduate courses offered during odd semester:

Sr. No.	Semester	Course Number	Title of course	Credits
1	1 st	Agron.1.1	Agricultural Heritage	1+0
2	1 st	Agron.1.1	Introductory Agro Meteorology & Climate Change	1+1
3	3 rd	Agron.3.4	Crop Production Technology-I (<i>Kharif</i> Crops)	1+1
4	5 th	Agron.5.6	Farming System and Sustainable Agriculture	1+0
5	5 th	Agron.5.7	Geoinformatics and Precision Farming	1+1
6	5 th	Agron.5.8	Practical Crop Production –I (<i>Kharif</i> Crops)	0+1

Under graduate courses offered during even semester:

Sr. No.	Semester	Course Number	Title of course	Credits
1	2 nd	Agron 2.2	Fundamentals of Agronomy	3+1
2	4 th	Agron.4.4	Crop Production Technology -II(<i>Rabi</i> Crops)	1+1

3	4 th	Agron.4.5	Weed Management	2+1
4	6 th	Agron.6.9	Principles of Organic Farming	1+1
5	6 th	Agron.6.10	Rainfed Agriculture and Watershed Management	1+1
6	6 th	Agron.6.11	PracticalCrop Production -II(<i>Rabi</i> Crops)	0+1

List of Ph.D./ M.Sc. (Agri.) students who have completed their degree successfully.

Sr. No.	Name of student	Title of Thesis	Name of Advisor	Subject	Degree Year
1	Tekale Chaitanya Devram	Comparative performance of summer greengram (<i>Vigna radiate</i> L.) cultivars under different dates of sowing and Plant densities in south Gujarat conditions.	Dr. D.D. Patel	Agronomy	2010
2	Deshmukh Swapnil Prasadrao	Response of summer Pearlmiled (<i>pennsetum glaucoma</i> L.) varieh'es to land configuration and date of sowing under south Gujarat Condition.	Dr.J.G. Patel	Agronomy	2011
3	Dongare Rajesh Sarangdhar	Response of different cultivarsof gram (<i>Cicer arietinum</i> L.) tointegrated nutrient managementundersouth Gujaratcondition	Dr.D.D. Patel	Agronomy	2011
4	Patel Rinkuben Devchandbhai	Response of different cultivarsof greengram (<i>Vigna radiate</i> L.)tointegratednutrient managementundersouthGujara tcondition.	Dr.D.D. Patel	Agronomy	2012
5	Chaudhari Mukeshbhai Purabhai	Effect of spacing and nutrientmanagementondhainc ha(<i>Sesbaniaaculeate</i> L.)undersouth Gujaratcondition.	Dr.D.D. Patel	Agronomy	2012
6	Mansuri Rameez Noormohmad	Weed management insugarcaneunderso uthGujarat condition.	Dr.D.D. Patel	Agronomy	2013
7	Patel Sureshbhai Gomanbhai	Study of critical period of crop- weed competition in rabi castor (<i>Ricinus communis</i> L.)under South Gujarat condition.	Dr.D.D. Patel	Agronomy	2013
8	Parmar Valjibhai Tejabhai	Weed Management in sunflower (<i>helianthus annuals</i> L.) under south Gujarat condition.	Dr.J.G. Patel	Agronomy	2013
9	Sandhi Sahil Jalalahemadkhan	Effect of spacing and nutrient management in Sunflower (<i>helianthus annulus</i> L) under south Gujarat condition.	Dr.J.G. Patel	Agronomy	2013

10	Patel Sagarkumar Bipinbhai	Response of green gram (<i>Vigna radiata</i> L.) to spacing level of fertilizer with and without – fym under south Gujarat condition	Dr. J.G. Patel	Agronomy	2014
11	Patel Axaykumar Ratilal	Integrated nutrient management in summer green gram (<i>Vigna radiata</i> L.) under south Gujarat condition	Dr. D.D. Patel	Agronomy	2014
12	Savaliya Dharmeshkumar V.	Weed management in coriander (<i>Coriandrum sativum</i> L.) under south Gujarat condition	Dr. T.U. Patel	Agronomy	2015
	Savaliya Dharmeshkumar V.	Weed management in coriander (<i>Coriandrum sativum</i> L.) under south Gujarat condition	Dr. T.U. Patel	Agronomy	2015
13	Zinzala Manish Jitubhai	Weed management practices in summer okra (<i>Abelmoschus esculentus</i> L. Moench.) under south Gujarat condition	Dr. T.U. Patel	Agronomy	2015
14	Chaudhary Jivrajbhai Harsengbhai	Phosphorus management in chickpea and its residual effect on fodder sorghum with two fertility levels	Dr. D.D. Patel	Agronomy	2016
15	Chaudhari Nareshkumar Narsinhbhai	Integrated nitrogen management in summer pearl millet under south Gujarat condition	Dr. D.D. Patel	Agronomy	2016
16	Patel Chintankumar P.	Weed management in summer sesame (<i>Sesamum indicum</i> L.) under south Gujarat condition	Dr. D.D. Patel	Agronomy	2017
17	Lodaya Darshan Hirabhai	Bio Efficacy of New Herbicides in Direct Seeded Rice (<i>Oryza sativa</i> L.)	Dr. T.U. Patel	Agronomy	2017
18	Subhra Sahoo	Weed management in garlic (<i>Allium sativum</i> L.)	Dr. T.U. Patel	Agronomy	2018

19	Baldaniya Manish Jodhabhai	Weed management in fodder maize (<i>Zea mays</i> L.)	Dr. T.U. Patel	Agronomy	2018
20	Ganvit Vipulkumar Chhotubhai	Production potential of forage oat – lucerne intercropping as influenced by different row ratio under south gujarat condition	Dr. Vaishali H. Surve	Agronomy	2018
21	Patel Bhavini Jayantilal	Effect Of Spacing And Weed Management On Summer Moth Bean (<i>Vigna aconitifolia</i>)	Dr. H. H. Patel	Agronomy	2018
22	Zinzala Manish Jitubhai	Effect of fertilizer levels and weed management in sugarcane (<i>Saccharum officinarum</i> L.) under south Gujarat condition	Dr. D.D. Patel	Agronomy	2019
23	Joshi Dhruvi Vinaykumar	Effect of nutrient management on productivity of different varieties of sorghum in summer season under south Gujarat conditions	Dr. D.D. Patel	Agronomy	2019
24	Chitla Sai Srujan	Effect of irrigation and nitrogen levels in grain amaranth (<i>Amaranthus hypochondriacus</i> L.) under south Gujarat condition.	Dr. H. H. Patel	Agronomy	2019
25	Patel Darshan Bhulabhai	Irrigation scheduling and weed management in <i>rabi</i> green gram (<i>Vigna radiata</i> L.)	Dr. T.U. Patel	Agronomy	2019
26	Vaghela Tusharkumar Dhirubhai	Effects of tillage practices and fertility levels on crop growth, yield and quality of sugarcane (<i>Saccharum officinarum</i> L.)	Dr. D.D. Patel	Agronomy	2020
27	Givind Ram	Effect of seed priming and nutrient management on fodder maize under south Gujarat condition	Dr. D.D. Patel	Agronomy	2020
28	Chaudhary Chinki Sagarambhai	Efficacy of non-selective herbicides against non-crop situation	Dr. T.U. Patel	Agronomy	2020

29	Parmar Priya Vasantbhai	Effect of sowing dates and weed management in cowpea	Dr. T.U. Patel	Agronomy	2020
30	Miss. Thakor Bharvi Kanaiyalal	Response of summer green gram (<i>vigna radiata</i> L.) Varieties to sulphur application and fertilizer levels under south gujarat condition	Dr. Vaishali H. Surve	Agronomy	2020
31	Chaudhari Karunaben Manjibhai	Effect of date of sowing and nutrient management in summer sesame (<i>Sesamum indicum</i> L.) under south Gujarat condition	Dr. H. H. Patel	Agronomy	2020
32	<u>Thummar Priyanka</u> <u>Hasmukhbhai</u>	Effect of nitrogen and zinc on summer cowpea (<i>Vigna unguiculata</i> L. Walp) under south Gujarat condition	Dr. H. H. Patel	Agronomy	2020
33	Borsadiya Vishalkumar Babubhai	Effect of time of sowing and spacing on blackgram (<i>Vigna mungo</i> (L.) Hepper) under rainfed condition	Dr. D.D. Patel	Agronomy	2021
34	Katara Chetnaben Mangalsinh	Effect of biofertilizer and fertility levels on growth and yield of summer cowpea [<i>Vigna unguiculata</i> (L.) Walp.] under south Gujarat condition	Dr. Vaishali H. Surve	Agronomy	2021
35	Patel Hiralben Sureshbhai	Effect of time of sowing and row spacing on soybean (<i>glycine max</i> L.) Under rainfed condition	Dr. Vaishali H. Surve	Agronomy	2021
36	Kapadiya Vivek Manharlal	Weed management in blackgram (<i>Vigna mungo</i> (L.) Hepper)	Dr. H. H. Patel	Agronomy	2021

6. FACILITIES:

Following facilities are to be developed-

- i) Laboratory
- ii) Crop museum
- iii) Store room
- iv) Agricultural implements
- v) Departmental library

7. RESEARCHACTIVITY:

(i) Projects

Sr. No.	Title of experiment	Year	Funding agency
1	NIL		

(ii) Ongoing experiments

Sr. No.	Title of experiment	Year
1	Influence of Glufosinate ammonium on cotton yield and soil microbes	
2	Effect of row and plant spacing on pigeon pea	
3	Effect of nitrogen, phosphorus and potash on rabi sweet corn (<i>Zea mays</i> L. var. <i>Saccharata</i> Sturt)	2020
4	Effect of land configuration and drought mitigating strategies in pigeonpea under rainfed condition	
5	Response of pigeonpea to waste decomposer under rainfed condition	
6	Effect of sulphur and zinc levels on yield and quality of sweet corn (<i>Zea mays</i> L. <i>Saccharata</i> Sturt) and soil fertility status after harvest	
7	Response of sowing time and row spacing on Soybean (<i>Glycine max</i> L.) under rainfed condition.	
8	Nutrient management in Dill Seed under south Gujarat condition	2020
9	Feasibility of Mustard (<i>Brassica juncea</i> L.) under varying fertilizer levels in south Gujarat condition	2021

8. RESEARCHRECOMMENDATION:

Sr. No.	Title and Recommendation	Year
1.	Farmers of South Gujarat Agro-climatic zone-II growing rainfed cotton (GBHV-170) are advised to follow spacing of 120 x 45 cm with application of 150 kg N/ha for getting higher seed cotton yield and net profit. The nitrogen should be applied in two split i.e. 50 % as basal and 50 % at 1-1.5 month after sowing.	2016-17
2.	The farmers of AES-V of south Gujarat rainfall zone are advised to keep the field weed free from 20 up to 80 days after sowing for	

	getting higher weed competition Index and profitable seed cotton yield.	
3.	Farmers of South Gujarat Zone-II (AES-V) growing pigeon pea under rainfed condition during kharif season are recommended to apply 25-50-0 kg NPK/ha along with three spray of water soluble 19:19:19 NPK 1% at branching, flowering and pod development stage for achieving higher and profitable yield.	2017-18
4.	Farmers of South Gujarat Zone-II (AES-V) growing rainfed castor are advised to grow dhaincha as green manuring (buried at 42-45 days after sowing) and nourished the succeeding castor crop with 100 % RDF (i.e. 120:30 kg NP/ha) for achieving higher and profitable yield.	2018-19
5.	The farmers of of south Gujarat zone II (AES-V) growing sorghum (GJ 42) are advised to apply recommended fertilizer 80-40-0 NP kg/ha (40:40:00 NP kg/ha as basal and 40:00:00 N kg/ha at 30 DAS) with spraying of NAUROJI Novel organic liquid fertilizer (1%) for getting higher yield and monetary returns under rainfed condition. ખેડૂતોપયોગી ભલામણ: દક્ષિણ ગુજરાત ખેત આબોહવાકીય વિસ્તારમાં વરસાદ આધારીત જુવાર (જીજી ૪૨) ઉગાડતા ખેડૂતોને વધુ ઉત્પાદન તેમજ ચોખ્ખો નફો મેળવવા ભલામણ મુજબ ખાતર ૮૦-૪૦-૦ ના-ફો-પો કિગ્રા/હે (૪૦-૪૦-૦૦ ના-ફો-પો કિગ્રા/હે પાયામાં તેમજ ૪૦ કિગ્રા નાઈટ્રોજન/હે વાવણી બાદ ૩૦ દિવસે) અને વાવણી બાદ ૪૫ અને ૬૦ દિવસે ૧% નોરોજી નોવેલ ઓર્ગેનીક લીકવીડ ફર્ટીલાઈઝરનો છંટકાવ કરવાની ભલામણ કરવામાં આવે છે.	
6.	Farmers of South Gujarat Zone-II (AES-V) growing pigeon pea var. Vaishali under rainfed condition during kharif season are recommended to maintain 120 cm row spacing and take two rows of soybean or greengram as intercrop for obtaining higher and profitable yield.	
7.	Based on the results of three years' experimentation it can be concluded that application of 60-30-0 NP kg/ha (30:30:00 NP kg/ha as basal and 30:00:00 N kg/ha at 40 DAS) gave higher grain yield (1752.14 kg/ha) of dillseed and monetary return (78840 Rs/ha) under rainfed condition. ખેડૂતોપયોગી ભલામણ: દક્ષિણ ગુજરાત વિભાગ-૨ (કૃષિઆબોહવાકીય પરિસ્થિતી-૫) માં ખરીફ ઋતુ દરમિયાન બિનપિયત સુવા(જીડી ૩) નું વાવેતર કરતા ખેડૂતોને વધુ ઉત્પાદન તેમજ ચોખ્ખો નફો મેળવવા માટે ખાતર ૬૦-૩૦-૦ ના.ફો. કિ.ગ્રા./હે (૩૦ કિ.ગ્રા.નાઈટ્રોજન/ હે. અને ૩૦ કિ.ગ્રા. ફોસ્ફરસ/ હે. પાયામાં તેમજ ૩૦ કિ.ગ્રા.નાઈટ્રોજન/ હે.વાવણીના ૪૦ દિવસ બાદ) ભલામણ કરવામાં આવે છે.	2019-20
8.	The farmers of South Gujarat Agro-climatic Zone growing rainfed castor are recommended to adopt green gram-castor or black gram-castor relay cropping system for obtaining higher yield and net profit. ખેડૂતોપયોગી ભલામણ: દક્ષિણ ગુજરાત ખેત આબોહવાકીય વિસ્તારમાં વરસાદ આધારીત દિવેલાની ખેતી કરતા ખેડૂતોને વધુ ઉપજ અને ચોખ્ખો નફો મેળવવા માટે મગ-દિવેલા અથવા અડદ-દિવેલા રિલે પાક પદ્ધતિ અપનાવવાની ભલામણ કરવામાં આવે છે.	2019-20

9. PUBLICATION

(i) Research Paper Published in International Journal:

1. V.S.Patel and D.D.Patel(2010).Bio-organicnutrientmanagementinsugarcane(*Saccharumofficinarum*L.).*GreenFarming*,3(2).85-87.
2. V.S.Patel and D.D.Patel(2010).Sustenanceofsoilhealthandproductivityofsugarcane throughdifferentlevelsandsourceoforganics.*GreenFarming*,Vol.1(3):266-269.
3. V.C.Raj,M.K.Arvidia and D.D.Patel(2010).Effectofintegratedweedmanagementonrabi greengram(*Vignaradiata*).*GreenFarming*,Vol.1(4):377-379.
4. Patel,J.G.,Patel,D.D.,Patel,D.K.andKumar,V.(2012).ResponseOfBtCottonHybrid(Rch-2)ToVariedCropGeometryAndFertilizerRegimesInVertisolsOfSouthGujarat. *AGRES–AnInternationale-Journal*,1(4):414-422
5. Gami,M.R.,PatelD.D.,ArvidiaM.K.,PatelT.U.,PatelH.M.andPatelA.J.(2013).Evaluation of different tillage depths and FYM levels on onion (*Allium cepa* Linn) bulbcrop.*AGRES–AnInternationale-Journal*,Vol.2(1):20-27.
6. Patel J. G., Patel D. D. and Patel D. K. (2013). Influence of depth of tillage and landconfigurationongrowth,yieldandeconomicsofcotton(G.Cot.Hy.12).*AGRES–AnInternationale-Journal*,Vol.2(1):28-33.
7. PatelJ.G.,PatelD.D.,PatelD.K.andKumarV.(2013).Influenceofdepthoftillageandland configurationonyieldandnutrientuptakebycottoncv.G.Cot.Hy.12undersouthGujaratcondition.*AGRES–AnInternationale-Journal*,Vol.2(1):97-100.
8. Patel J. G., Patel D. D., Patel D. K. and Kumar V. (2013). Effect of depth of tillage and landconfiguration on weed infestation and yield of cotton under south Gujarat condition. *AGRES–AnInternationale-Journal*,Vol.2(1):108-111.
9. Miss PatelR.D.,Patel D.D.,ChaudhariM.P., MissSurveVaishali, Miss PatelK.G.,Miss Patel K. G., and Miss Tandel B. B. (2013). Response of different cultivars of greengram (*Vignaradiata*(L) Wilczek) to integrated nutrient management under south Gujarat condition.*AGRES–AnInternationale-Journal*,Vol.2(2):132-142.
10. ChaudhariM.P.,PatelD.D.,MissPatelR.D.,PatelD.K.,PatelT.U.andPatelH.K.(2013).Effect of spacing and nutrient management on nutrient content and uptake of dhaincha(*Sesbaniaaculeate*L.)undersouthGujaratcondition.*AGRES–AnInternationale-Journal*,Vol.2(2):173-182.
11. ChaudhariM.P.,PatelD.D.,MissPatelR.D.,PatelD.K.,PatelT.U.andPatelH.K.(2013). Responseofdhaincha(*Sesbaniaaculeate*L.)tospacingandnutrientmanagementundersouthGujaratcondition.*AGRES–AnInternationale-Journal*,Vol.2(2):217-224.
12. ChaudhariM.P.,PatelD.D.,MissPatelR.D.,PatelD.K.,PatelH.H.,PatilP.A.andPatelJ.G.(2013).Effectofspacingandnutrientmanagementonqualityandyieldofdhaincha(*Sesbaniaaculeate*L.)undersouthGujaratcondition..*AGRES–AnInternationale-Journal*,Vol.2(2):250-254.
13. Patel,D.D.,Patel,T.U.,Thanki,J.D.andArvidia,M.K.(2013).Weedmanagementstrategyinorganicfarming.*AGRES–AnInternationale-Journal*,Vol.2(3):255-268.
14. Tandel, B. B., Patel, D. D., Thanki, J. D., Arvidia, M. K. and Jat, R. A. (2013). Response of biofertilizers in conjunction with inorganic fertilizers in *kharif* paddy. *AGRES – An International e-Journal*,Vol.2(3):342-351
15. PatelT.U.,Patel,D.D.,ThankiJ.D.andArvidiaM.K.(2013).Evaluationofweed

management practices on performance of onion (*Allium cepa* L.) bulb crop under different fertilizer levels. *Research on crops*, Vol. 14(3):890-896.

16. Patel T. U., Arvadia M. K., Patel D. D., Thanki J. D. and Patel H. M. (2013). Response of oat (*Avena sativa* L.) to cutting management and times of N application. *Research on crops*, Vol. 14(3):902-906.
17. Leva R. L., Thanki J. D., Patel D. D. and Patel T. U. (2013). Growth and yield of turmeric (*Curcuma longa* L.) as influenced by planting methods and fertigation under vertisol soils of south Gujarat condition. *Research on crops*, Vol. 14(3):964-967.
18. Patel, C. R., Damame H. S., Patel, D. D., Prajapati, D. R. and Nizama, J. R. (2013). Effect of sowing dates on performance of groundnut (*Arachis hypogaea* L.) cultivars in rabi season under south Gujarat conditions. *AGRES – An Internationale Journal*, Vol. 2(4):484-488.
19. Patel S. G., Patel D. D., Prajapati D. R. and Nizama J. R. (2014). Response of critical period of crop-weed competition on growth parameters, yield attributes, yield and quality of faba bean (*Vicia faba* L.) under South Gujarat condition. *AGRES – An Internationale Journal*, Vol. 3(1):87-96.
20. Mansuri R. N., Patel D. D., Sandhi S. J. and Prajapati D. R. (2014). Effect of integrated weed management in sugarcane (*Saccharum officinarum* L.) on weed intensity and cane yield. *AGRES – An Internationale Journal*, Vol. 3(1):111-117.

(ii) Research Paper Published in National Journal:

1. S. R. Patel, A. I. Patel, S. I. Tailor, C. L. Patel, R. D. Vashi and D. D. Patel (2004). Improvement of CoC 671 for resistance with physical mutagenesis. *Indian J. Sugarcane Technology*, 19(1&2): 58-63.
3. D. D. Patel, P. G. Patel and B. K. Patel (2006). Intercropping in cotton G. Cot. Hy-10 under
2. D. D. Patel, C. L. Patel and G. B. Kalaria (2006). Effect of planting geometry and weed management on
4. C. L. Patel, D. D. Patel and M. N. Patel (2007). Critical period of crop weed competition in sugarcane (Var. CoLK 8001). *Indian Sugar*, Vol. LVI:27-32.
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List of published books:

Sr. No.	Name of Author	Name of Department	Name of Faculty	Title of Book	Name of Publisher	Year of Publication	ISBN
1	Dr. M.K. Arvadia, Dr. D.D. Patel, T. U. Patel, D.K. Patet, P.S. Patil and Dr. S.R. Patel	Agronomy	Agriculture	Akramak Nindano	Department of Agronomy, N.M.C.A., N.A.U., Navsari	2010	-
2	Dr. D.D. Patel, Dr. M.K. Arvadia, Shri. T.U. Patel, Dr. V.C. Raj, Shri. D.K. Patil and Shri. P.A. Patil	Agronomy	Agriculture	Nindan-Olakh Tenu Niyantan	Department of Agronomy, N.M.C.A., N.A.U., Navsari	2010	978-93-5156-332-7
3	Dr. J.D. Thanki, Dr. D.D. Patel and Prof. S.N. Gajjar	Agronomy	Agriculture	Kathol Pako-Kheti, Prashno and Nirakaran	Department of Agronomy, N.M.C.A., N.A.U., Navsari	2012	978-81-923828-0-7
4	R. K. Patel S. N. Gajjar, D. D. Patil and S. ITailar	Agronomy	Agriculture	Sheradi mapak Sanrakhhhan	ATMA, Department of Agriculture, Gujarat	2012	-
5	S. N. Gajjar, R. K. Patel, D. D. Patil and S.K. Dhimmarmar	Agronomy	Agriculture	Dangar Kheti Padhdhati Ane Pak Sanrakhhhan	ATMA, Department of Agriculture, Gujarat	2012	978-93-5137-181-6
6	J.R. Nizama, D. D. Patel, R.R. Patel, R.K. Patil and D.R. Prajapati	Agronomy	Agriculture	Agatyana Kathol Pakoni Vaigyanik Kheti	College of Agriculture, N.A.U., Bharuch	2013	-
7	Dr. J.D. Thanki, Dr. T.U. Patel, Dr. D.D. Patil and Shri P.A. Patil	Agronomy	Agriculture	The Weed: Identification and Characteristics	Department of Agronomy, N.M.C.A., N.A.U., Navsari	2013	978-81-923828-1-4
8	S. N. Gajjar, R. K. Patel, D. D. Patil and S.K. Dhimmarmar	Agronomy	Agriculture	Dangar Kheti Padhdhati Ane Pak Sanrakhhhan	ATMA, Department of Agriculture, Gujarat	2013	-

Book/Book Chapter Publication:

Leaflet/Folder published

1. Badlata vatavaranne Anurup Krushi Tajgyata)Uni. Pub. No. 1120/20-21
2. Kutrim Varsad: Safal Kheti mate Ek Naveentam Abhigam (Uni. Pub. No. 1020/20-21)
3. Adhunik Vedhshala – Samayni Maang (Uni. Pub. No. 0920/20-21)
4. Khedut Mitra – Gramin Krushi Mausam Seva Project (Uni. Pub. No. 0820/20-21)
5. Rakshit Kheti- Havamanna Ferbadal same Khedutone Rakshan (Uni. Pub. No. 1220/20-21)
6. KrushiHavamanAvlokan Margdarshika (Uni. Pub. No. 1420/20-21)

List of Awards/ Recognitions to faculty

Sr. No.	Name and designation	Name of Award
1	Dr. D. D. Patel Associate Professor	Best Teacher Award in the Agriculture Faculty of Navsari Agricultural University during 13th Annual Convocation on dated 19/01/2018
2	Dr. S. P. Deshmukh Assistant Professor (Agronomy)	Best Agri Teaching Award-2019, presented by Agrocare Krushimanch for excellent work in the field of Agricultural Research, Education and Extension.
3	Dr. Vaishali H. Surve Assistant Professor (Agronomy)	11th State level Best Agri Teaching Award-2019, presented by Agrocare Krushimanch for excellent work in the field of Agricultural Research, Education and Extension.
4	Dr. T.U. Patel Assistant Professor	Best Teacher Award in the Agriculture Faculty of Navsari Agricultural University during 13th Annual Convocation on dated 09/02/2021

List of practical records prepared

Sr. No.	Course Number	Title of course
1	Agron 2.2	Fundamentals of Agronomy
2	Agron. 3.3	Crop Production Technology-I (<i>Kharif</i> Crops)
3	Agron 4.4	Crop production Technology II (<i>Rabi</i> crops)
4	Agron. 4.5	Weed Management
5	Agron 5.7	Geoinformatics and precision farming
6	Agron. 6.9	Principles of Organic Farming
7	Agron 6.10	Rainfed agriculture and watershed management

10. TRANSFER OF TECHNOLOGIES:

1. Department staff is also actively participating in Krushimahotsav, Krushimela, Khedut Din, Khedut Shibir, Seminar, Radio and television program metime to time.
2. This department is also guiding farmer through publishing press notes in daily newspaper and weekly/monthly periodicals on the agronomic aspects of major crops.