

POLYTECHNIC IN AGRICULTURE
NAVSARI AGRICULTURAL UNIVERSITY
BHARUCH CAMPUS, BHARUCH

1. INTRODUCTION:

Agriculture School was established in 2nd October, 1966. It is converted into Polytechnic in Agriculture during 2009-10. It is located in the East side two kilometres away from Railway Station Bharuch on Zadeshwar road. Nearest Airport is Vadodara, 75 Km away from Bharuch. Geographically the Polytechnic in Agriculture is located at Longitude 73.5°E and Latitude 22.0°N. It is one of the College of Navsari Agricultural University. The main activities of Polytechnic in Agriculture, Bharuch are Education, Research and Extension. It also provides middle level technician and also gives opportunity to rural youth for degree programme (i.e. diploma to degree) admission under B.Sc. (Agri.) course.

2. OBJECTIVES:

1. To generate middle level technician for Agricultural field, laboratory research work, commercial enterprise and extension services.
2. To impart theoretical and practical training to the students in Agricultural so that they can gain confidence for self employment in Agricultural, processing, value addition and post harvest technology.
3. To conduct need based research in Agriculture.

3. MAJOR ACTIVITIES:

1. Teaching:

(a) Polytechnic in Agriculture:

Total 46 courses with 113 (89+24) credits are being taught from first to six semesters

(b) Other academic activities:

Practical crop production programme : Considering the principles of "earn while you learn" the students of 3rd semester of Polytechnic in Agriculture class are being allotted the land during *kharif* season, where in they have to grow greengram / pigeonpea (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:

Faculties of Polytechnic in Agriculture is also associated with research activities wherein several field experiments are being conducted year round under various research projects.

3. Extension:

Faculty members are also actively participating in Krushi Mahotsav, Krushi Mela, Khedut Din, Khedut Shibir, Seminar, Radio and television programme time to time.

4. MAJOR ACHIEVEMENTS

1. Teaching:

Polytechnic in Agriculture

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

Courses offered during odd semester:

Course No.	Title of the Course	Credit
I Semester		
Agron. 1.1	Introductory Agriculture and Principles of Agronomy	2+1=3
Agron. 1.2	Field Crops-I (<i>kharif</i>)	2+1=3
Ag. Chem. 1.1	Introduction to Soil Science	2+1=3
Pl. Path. 1.1	Introductory Plant Pathology	1+1=2
PBG 1.1	Economic Botany	1+1=2
Maths 1.1	Biomathematics	2+0=2
Eng. 1.1	Comprehension and Communication Skills in English	1+1=2
P.E. 1.1	NSS/NCC/Physical Education (Non credit course)	0+1=1*
III Semester		
Agron. 3.4	Organic Farming and Sustainable Agriculture	1+1=2
Agron. 3.5	Practical Crop Production (Kharif crops)	0+1=1
Ag. Chem. 3.3	Plant nutrition, manures and fertilizers	2+1=3
PBG 3.2	Principles of genetics	2+1=3
Ag. Ento. 3.2	Principles of Insect control	1+1=2
Pl. Path. 3.2	Diseases of field crops and their management	1+1=2
LPM -3.1	Principles of Live stock & Poultry Production	1+1=2
Hort. 3.1	Production technology of fruit crops	2+1=3
P.E. 3.3	NSS/NCC/Physical Education (Non credit course)	0+1=1*
V Semester		
Agron. 5.8	Farming Systems and farm management	1+1=2
Ag. Extn.5.1	Fundamentals of Extension Education and communication	2+1=3
Ag. Stat. 5.2	Agriculture statistics	2+1=3
Hort. 5.4	Production Technology of Flower Crops and Gardening	1+1=2
PBG 5.3	Introductory Plant Breeding	2+1=3
Ag. Micro. 5.1	Agricultural Microbiology	2+1=3
LPM 5.2	Dairy Cattle and Buffalo Production & Management	2+1=3
Ag. Ento. 5.4	Pests of fruit and vegetable crops and their management	1+1=2

Courses offered during even semester:

Course No.	Title of the Course	Credit
II Semester		
Ag. Eco. 2.1	Principles of Agricultural Economics	2+0=2
Ag. Engg. 2.1	Fundamentals of soil water conservation and engineering	2+1=3
Ag. Ento. 2.1	Fundamentals of Entomology	1+1=2
Ag. Chem. 2.2	Soil chemistry, soil fertility and nutrient management	2+1=3
Agron. 2.3	Field crops -II (Rabi)	2+1=3
Ag. Met. 2.1	Agricultural meteorology	2+1=3
P.E. 2.2	NSS/NCC/Physical Education (Non credit course)	0+1=1*
IV Semester		
Agron. 4.6	Water Management	2+1=3
Agron. 4.7	Weed management	1+1=2
P1.Path.4.3	Diseases of fruits and vegetable crops and their management	1+1=2
Pl. Phy. 4.1	Crop Physiology	1+1=2
Ag. Ento. 4.3	Pests of field crops and their management	1+1=2
Hort. 4.3	Production Technology of Vegetable Crops	1+1=2
Ag. Engg. 4.2	Post harvest technology	1+1=2
Ag. Stat. 4.1	Introduction to computer application	1+1=2
P.E. 4.4	NSS/NCC/Physical Education (Non credit course)	0+1=1*
VI Semester		
PBG 6.4	Seed Production Technology	0+4=4

Hort. 6.5	Preservation and Value Addition in Horticultural Crops	0+4=4
P1.Path. 6.4	Mushroom Production Technology	0+4=4
Hort. 6.6	Green House Technology	0+4=4
Agron. 6.9	Vermicompost	0+4=4
	Educational Tour*	S

6. FACILITIES:

Following facilities are to be developed-

- i) Computer Lab
- ii) Online UPS 5 KVA
- iii) Store room
- iv) Video Projector with computer
- v) Laboratory equipments

7. RESEARCH ACTIVITY:

Faculties of Polytechnic in Agriculture are associated with research activities wherein several field experiments are being conducted year round under various research projects.

8. EXTENSION:

Faculty members are also actively participating in Krushi Mahotsav, Krushi Mela, Khedut Din, Khedut Shibir, Seminar, Radio and television programme time to time.

9. PUBLICATION

(i) Research Paper Published in International Journal:

1.	V.S. Patel and D. D. Patel (2010) . Bio-organic nutrient management in sugarcane (<i>Saccharum officinarum</i> L.). <i>Green Farming</i> , 3(2). 85-87.
2.	V. S. Patel and D. D. Patel (2010) . Sustenance of soil health and productivity of sugarcane through different levels and source of organics. <i>Green Farming</i> , Vol. 1(3): 266-269.
3.	V. C. Raj, M. K. Arvadia and D. D. Patel (2010) . Effect of integrated weed management on rabi green gram (<i>Vigna radiata</i>). <i>Green Farming</i> , Vol. 1(4): 377-379.
4.	Patel, J. G., Patel, D. D. , Patel, D. K. and Kumar, V. (2012). Response Of Bt Cotton Hybrid (Rch-2) To Varied Crop Geometry And Fertilizer Regimes In Vertisols Of South Gujarat. <i>AGRES – An International e-Journal</i> , 1(4) :414-422
5.	Gami, M.R., Patel D. D. , Arvadia M. K., Patel T. U., Patel H. M. and Patel A. J. (2013). Evaluation of different tillage depths and FYM levels on onion (<i>Allium cepa</i> Linn) bulb crop. <i>AGRES-An International e-Journal</i> , Vol.2(1):20-27.
6.	Patel J. G., Patel D. D. and Patel D. K. (2013). Influence of depth of tillage and land configuration on growth, yield and economics of cotton (G. Cot. Hy.12). <i>AGRES-An International e-Journal</i> , Vol.2(1):28-33.
7.	Patel J. G., Patel D. D. , Patel D. K. and Kumar V. (2013). Influence of depth of tillage and land configuration on yield and nutrient uptake by cotton <i>cv.</i> G.Cot. Hy.12 under south Gujarat condition. <i>AGRES-An International e-Journal</i> , 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 land configuration on weed infestation and yield of cotton under south Gujarat condition. <i>AGRES-</i>

	<i>An International e-Journal</i> , Vol.2(1):108-111.
9.	Miss Patel R. D., Patel D. D. , Chaudhari M. P., Miss Surve Vaishali, Miss Patel K. G., Miss Patel K. G., and Miss Tandel B. B. (2013). Response of different cultivars of greengram (<i>Vigna radiate</i> (L) Wilczek) to integrated nutrient management under south Gujarat condition. <i>AGRES-An International e-Journal</i> , Vol.2(2):132-142.
10.	Chaudhari M. P., Patel D. D. , Miss Patel R. D., Patel D. K., Patel T. U. and Patel H. K. (2013). Effect of spacing and nutrient management on nutrient content and uptake of dhaincha (<i>Sesbania aculeate</i> L.) under south Gujarat condition. <i>AGRES-An International e-Journal</i> , Vol.2(2):173-182.
11.	Chaudhari M. P., Patel D. D. , Miss Patel R. D., Patel D. K. , Patel T. U. and Patel H. K. (2013). Response of dhaincha (<i>Sesbania aculeate</i> L.) to spacing and nutrient management under south Gujarat condition. <i>AGRES-An International e-Journal</i> , Vol.2(2):217-224.
12.	Chaudhari M. P., Patel D. D. , Miss Patel R. D., Patel D. K. , Patel H. H., Patil P. A. and Patel J. G. (2013). Effect of spacing and nutrient management on quality and yield of dhaincha (<i>Sesbania aculeate</i> L.) under south Gujarat condition.. <i>AGRES-An International e-Journal</i> , Vol.2(2):250-254.
13.	Patel, D. D. , Patel, T.U., Thanki, J. D. and Aravadia, M. K. (2013). Weed management strategy in organic farming. <i>AGRES – An International e-Journal</i> , Vol. 2(3): 255-268.
14.	Tandel, B. B., Patel, D. D. , Thanki, J. D., Arvadia, M. K. and Jat, R. A. (2013). Response of bio fertilizers in conjunction with inorganic fertilizers in <i>kharif</i> paddy. <i>AGRES – An International e-Journal</i> , Vol. 2(3): 342-351
15.	Patel T. U., Patel, D. D. , Thanki J. D. and Arvadia M. K. (2013). Evaluation of weed management practices on performance of onion (<i>Allium cepa</i> L.) bulb crop under different fertilizer levels. <i>Research on crops</i> , 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 (<i>Avena sativa</i> L.) to cutting management and times of N application. <i>Research on crops</i> , 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 (<i>Curcuma longa</i> L.) as influenced by planting methods and fertigation under vertisols of south Gujarat condition. <i>Research on crops</i> , 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 (<i>Arachis hypogaea</i> L.) cultivars in <i>rabi</i> season under south Gujarat conditions. <i>AGRES – An International e-Journal</i> , 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 <i>rabi</i> castor (<i>Ricinus communis</i> L.) under South Gujarat condition. <i>AGRES – An International e-Journal</i> , 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 (<i>Saccharum officinerum</i> L.) on weed intensity and cane yield. <i>AGRES – An International e-Journal</i> , Vol. 3(1): 111-117.
21.	Patel, R.K., Mehta, A.N., Patel D.R. , Patel, J.J. and Patel, R.R. (2012). Impact of sowing period and varieties on incidence of pod borers and grain yield in pigeonpea. <i>AGRES- An International e-Journal</i> , Vol. 1, Issue 3: 321-327.
22.	Patel D.R. , Purohit, M. S. and Patel, R.K. (2012). Occurrence of army worm, <i>Mythimna separata</i> walker on <i>kharif</i> sorghum. <i>AGRES- An International e-Journal</i> , Vol. 1, Issue 3: 334-339.
23.	Patel D.R. , Purohit, M. S. and Patel, R.K. (2012). Studies on parasites of stem borer, <i>Chilo</i>

	<i>partellus</i> on <i>kharif</i> sorghum. <i>AGRES- An International e-Journal</i> , Vol. 1, Issue 4: 475-479.
24.	Patel D.R. and Purohit, M. S. (2012). Population fluctuation of stem borer, <i>Chilo partellus</i> Swinhoe infesting sorghum in relation to weather parameters in <i>kharif</i> season. <i>AGRES- An International e-Journal</i> , Vol. 1, Issue 3: 350-355.
25.	Patel D.R. and Purohit, M. S. (2012). Susceptibility of sorghum cultivars to stem borer, <i>Chilo partellus</i> Swinhoe. <i>AGRES- An International e-Journal</i> , Vol. 1, Issue 3: 376-384
26.	Patel D.R. and Purohit, M. S. (2013). Occurrence of armyworm, <i>Mythimna separate</i> on rabi sorghum. <i>Internat. J. Plant Protec.</i> , 6(1): 225-226
27.	Kapadiya H.J.; Pathak D.M. and Patel D.R. (2013). Effect of artificial injuries and fresh neck cutting against black mould (<i>Aspergillus niger</i>) on onion bulb. <i>Internat. J. Plant Protec.</i> , 6(2): 422-424
28.	Patel D.R. and Purohit, M. S. (2013). Some physical plant characters in relation to shoot fly, <i>Atherigona soccata</i> (Rondani) resistance in sorghum. <i>Internat. J. Plant Protec.</i> , 6(2): 312-315
29.	Patel D.R. and Purohit, M. S. (2013). Influence of different weather parameters on aphid, <i>Melanaphis sacchari</i> infesting <i>Kharif</i> sorghum. <i>Internat. J. Plant Protec.</i> , 6(2): 484-486
30.	Patel D.R. and Purohit, M. S. (2013). Some morphological plant characters in relation to army worm, <i>Mythimna separata</i> resistance in sorghum. <i>Internat. J. agric.Sci.</i> , 9(2): 667-670
31.	Shaikh A.A., Patel D.R. and Patel, J.J (2013). Screening of different genotypes/cultivars against sucking pests infesting brinjal. <i>AGRES- An International e-Journal</i> , Vol. 2, Issue 1: 51-57.
32.	Patel D.R. ; Patel. J.J.; Pathak D.M. and Patel R.R. (2013). Studies on incidence of ear head worm, <i>Helicoverpa armigera</i> on rain fed sorghum. <i>AGRES- An International e-Journal</i> , Vol. 2, Issue 2: 225-231.
33.	Patel D.R. and Purohit, M. S. (2014). Observations on natural enemies of insect pests in sorghum field <i>Internat. J. agric.Sci.</i> , 10(2): 677-680
34.	G.R. Bhanderi, G.G. Radadiya And D.R. Patel (2014). Efficacy of various inert materials against <i>Sitophilus oryzae</i> in sorghum. <i>Internat. J. Plant Protec.</i> , 7(2) :389-392
35.	G.R. Bhanderi, G.G. Radadiya And D.R. Patel (2015). Screening of sorghum genotypes against Rice weevil, <i>Sitophilus oryzae</i> (L) <i>Internat. J. agric.Sci.</i> , 11(1): 93-98
36.	G.R. Bhanderi, G.G. Radadiya And D.R. Patel (2015). Suitability of different host foods of <i>sitophilus oryzae</i> . <i>International Journal of Current Research</i> , 7 (8), 19294-19295.
37.	Sangani, S.L., Vaghani, S.N. and Patel, J.M. (2013) Eco-dynamic studies on herbal based Sapota beverages. <i>The Asian Journal of Horticulture</i> 8 (1), 213-217
38.	Sangani, S.L., Vaghani, S.N., Patel, N. B. and Desai C. S. (2014) Scaling of hedonic score of herbal based Sapota beverages. <i>International Journal of Processing and Post Harvest Technology</i> . 5 (1), 62-66.

(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.
2. **D. D. Patel**, C. L. Patel and G. B. Kalaria (2006). Effect of planting geometry and weed management on quality and yield of sugarcane. *Indian J. Sugarcane Technology*, 21(1&2): 39-42.
3. **D. D. Patel**, P. G. Patel and B. K. Patel (2006). Intercropping in cotton G. Cot. Hy-10 under irrigated condition. *Crop Protection and Production*, 2(2): 98-99.

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.
5. **D. D. Patel**, C. L. Patel and B. K. Patel (2008). Effect of planting geometry and weed management on morphological characters of sugarcane Var. CoN 85134. *Indian Sugar*, Vol. September : 33-38.
6. V. S. Patel, A. M. Bafna, V. C. Raj, B. N. Colambe and **D. D. Patel** (2008). Effect of different levels and source of organics on sugarcane (Var. CoLK 8001). *Indian Sugar*, Vol. December : 65-70.
7. J. G. Patel, **D. D. Patel**, V. Kumar, B. K. Patel and V. M. Patel (2008). Response of protective irrigation at different critical growth stage of cotton. *J. Water Management*, 16(2):119-123.
8. J. G. Patel, **D. D. Patel**, V. Kumar, B. K. Patel and V. M. Patel (2008). Rain water management through different agro-techniques for improving quality and production of cotton. *J. Water Management*, 16(2):124-127.
9. C. L. Patel, **D. D. Patel** and M. N. Patel (2009). To ascertain optimum size of single eyebud and cane portion for three eye bud planting materials. *Indian Sugar*, Vol. August LIX (5) : 23-26.
10. V. S. Patel and **D. D. Patel** (2010). Effect of different sources and levels of organics on sugarcane (*Saccharum officinarum*). *Indian J. Agronomy*, Vol.55 (2) :152-156.
11. T.U. Patel, M.K. Arvadia, P.K. Malik, D.D. Patel and P.S. Patel (2011). Productivity of oat (*Avena sativa*) under different cutting management and split application of nitrogen. *Indian J. Agronomy*, Vol.56 (2) :164-168.
12. T.U. Patel, C.L. Patel, **D.D. Patel**, J.D. Thanki, P.S. Patel and Ram A.jat (2011). Effect of weed and fertilizer management on weed control and productivity of onion (*Allium cepa*). *Indian Journal of Agronomy*, Vol.56 (3):267-272.
13. C. D. Tekale, **D. D. Patel**, R. S. Dongare and R. R. Shewale (2011) Response of Green gram (*Vigna radiata* L.) to sowing dates and plant densities. *Bioinfolet*, 8(4):409-410.
14. C. D. Tekale, **D. D. Patel**, R. S. Dongare and S. D. Patil (2011). Performance of Green gram (*Vigna radiata* L.) cultivars under different dates of sowing. *Bioinfolet*, 8(4):415-416.
15. C. L. Patel, D. U. Patel, **D. D. Patel** and G. B. Kalariya (2011). Nutrient management for sugarcane seed crop. *Indian sugar*, Vol. March:47-50.
16. Raj, V.C., **Patel D.D.**, Thanki J.D., and Arvadia,M.K.(2012). Effect of integrated weed management on weed control and productivity of green gram(*Vigna radiata*). *Bioinfolet*. 9(3):391-395
17. Vidhate O.B., Thanki J.D and **Patel D.D.** (2012). Response of clusterbean [*Cyamopsis tetragonaloba* (L.) (Taub)] to integrated nutrient management. *Bioinfolet*. 9(3):388-390
18. Raj V. C., **Patel D. D.**, Thanki. J. D., Arvadia M. K. (2012).Effect of weed management in mango seedling nursery. *Bioinfolet*, 9(4):594-595.
19. Gami M. R., Arvadia M. K., **Patel D. D.**, Patel B. K., Patel H. H. (2012). Effect of tillage depth and fym levels on growth, yield and yield attributes of onion (*Allium cepa* Linn.). *Bioinfolet*, 9(4):605-607.
20. Patel H. M., patel T. U., Patel H. H., Patel P. S. and **Patel D. D.** (2012). Growth and yield influenced by INM in rabi castor grown on vertic ustochrepts of south Gujarat. *The Andhra Agricultural Journal*, 59 (1): 44-48.
21. Patel V. M., Patel C. L., Patel B. K., Patel A. M. and **Patel D. D.** (2012). Phosphorus management in rice (*Oryza sativa*) – autumn sugarcane (*Saccharum officinarum*) cropping system. *Indian J. Agronomy*, Vol.57 (4) :323-326.

- 22 Patel K. P., Thanki J. D., **Patel D. D.**, Bafna A. M., Arvadia M. K. and Gami R. C. (2013). Integrated nutrient management in rice (*Oryza sativa*) – sugarcane (*Saccharum officinarum*) (plant) - sugarcane (ratoon)cropping sequence. *Indian J. Agronomy*, Vol.58 (4) :9-14.
- 23 Patel T. U., Thanki J. D., **Patel D. D.**, Arvadiya L.K. and Italiya A. P. (2013). Weed management, fertilizer application and productivity of onion(*Allium cepa*) bulbs. *Bioinfolet*, 10(2A):379-381.
- 24 T. U. Patel, C. L. Patel, **D. D. Patel**, J. D. Thanki, M. K. Arvadia and H. B. Vaidya (2012). Performance of onion under weed and fertilizer management. *Indian Journal of Weed Science*, 44(3):151-158.
- 25 Leva R. L., Thanki J. D., **Patel D. D.** and Patel T. U. (2013). Effect of different planting methods and levels of Fertigation on termuric (*Curcuma longa*). *Bioinfolet* 10(3A):811-813.
- 26 R.N. Mansuri, **D.D. Patel**, S.J. Sandhi, K. G. Patel and D.R. Prajapati (2014). Response of weed and cane yield to integrated weed management in sugarcane (*Saccharum officinarum* L.). *Trends in Biosciences* 7(10):900-904.
27. **Patel D.R.**and Purohit, M. S.(2012).Hibernation of stem borer, *Chilo partellus* in *rabi* and *kharif* sorghum *Insect Environment*, Vol. 18(1&2): 18-22
28. **Patel D.R.**and Purohit, M. S.(2012). Competitive displacement of insect-pest of sorghum *Insect Environment*, Vol. 18(1&2): 26-28
29. **Patel D.R.**and Purohit, M. S. (2012). Seasonal abundance of parasitoids of stem borer, *Chilo partellus* on *rabi* *Insect Environment*, Vol. 18(1&2): 29-31
30. **Patel D.R.**and Purohit, M. S. (2012). Some morphological plant characters in relation to aphid resistance in sorghum. *Indian journal of Applied Entomology* Vol. 26(1): 81-82
31. **Patel D.R.**and Purohit, M. S. (2013). Incidence of shootfly, *Atherigona soccata*, Rondani on raiified sorghum. *Insect Environment*, Vol. 18(3&4): 84-88
32. Patel D.R.and Purohit, M. S. (2013).Spatial distribution of sorghum aphids, *Melanaphis sacchari*. *Indian J.Ent.*,75(4):342-344
33. **Patel D.R.**and Purohit, M. S. (2013). Occurrence of earhead bug, *Calocoris angustatus* Leth. on rainfed sorghum. *Insect Environment*, Vol. 18(3&4): 81-84
34. **Patel D.R.**and Purohit, M. S. (2014). Occurrence of aphids *Melanaphis sacchari*, on Rabi sorghum *Indian J.Ent.*,76(2):153-155
35. **Patel D.R.**and Purohit, M. S.(2015) Succession of insect pests in sorghum *Indian journal of Plant Protection* 43(2):186-189

List of published books:

Sr. No.	Name of Author	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. Patel , P. S. Patil and Dr. S. R. Patel	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,	Agriculture	Nindan- Olakh ane Tenu	Department of Agronomy, N.M.C.A.,	2010	978-93-5156-

	Dr. V. C. Raj, Shri. D. K. Patel and Shri. P. A. Patil		Niyantan	N.A.U., Navsari		332-7
3	Dr. J.D. Thanki, Dr. D.D. Patel and Prof. S.N. Gajjar	Agriculture	Kathol Pako-Kheti, Prashno Ane 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. Patel and S. I Tailar	Agriculture	Sheradi mapak Sanrakhhan	ATMA, Department of Agriculture, Gujarat	2012	-
5	S. N. Gajjar, R. K. Patel, D. D. Patel and S. K. Dhimmar	Agriculture	Dangar Kheti Padhdhati Ane Pak Sanrakhhan	ATMA, Department of Agriculture, Gujarat	2012	978-93-5137-181-6
6	J. R. Nizama, D. D. Patel , R.R. patel, R. K. Patel and D. R. Prajapati	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. Patel and Shri P. A. Patil	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. Patel and S. K. Dhimmar	Agriculture	Dangar Kheti Padhdhati Ane Pak Sanrakhhan	ATMA, Department of Agriculture, Gujarat	2013	-
9.	Patel J. M., Senapati E. K., Shahu., E. F., Sangani, S. L. and Dev Raj "	Horticulture	Fla ane shakbhajima mulya vardhan and parirakshan ni takniko.		2014	

List of practical records prepared

Sr. No.	Course Number	Title of course
1	Ag. Ento. 1.1	Fundamentals of Entomology
2	Ag. Ento 2.2	Principles of insect control
3	Ag. Ento. 3.3	Pests of field crops and their management
4	Ag. Ento. 4.4	Pests of fruit and vegetable crops and their management

10. TRANSFER OF TECHNOLOGIES:

Polytechnic staff is also actively participating in Krushimahotsav, Krushi mela, Khedut Din, Khedut Shibir, Seminar, Radio and television programme time to time.