

2018-19



ANNUAL REPORT

**COLLEGE OF AGRICULTURE
NAVSARI AGRICULTURAL UNIVERSITY
WAGHAI, DANGS**



COLLEGE OF AGRICULTURE

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1. Introduction

College of Agriculture, Navsari Agricultural University, Waghai was established by the Government of Gujarat under Tribal Sub-Plan as a constituent college of Navsari Agricultural University with the vision to built, 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, College of Agriculture started functioning from 2012-13 and students were admitted to four years B.Sc.(Hons.) Agriculture degree programme for the first time in July, 2012. Since inception, 201 undergraduate students have graduated from College of Agriculture, Waghai.

College of Agriculture, Waghai has been accredited by National Agricultural Education Accreditation Board of ICAR in 2018. The college has already implemented the recommendations of Fifth Dean's committee reports.

The constructions of Polytechnic and Degree college building have been completed in 2014-15 and 2017-18, respectively. The college building consists of ultra-modern auditorium with all necessary AV aids, smart class rooms has digital projector and CCTV cameras, well equipped laboratories of Entomology, Plant Pathology, Soil Science and Agricultural Chemistry, Genetics and Plant Breeding and Horticulture. College has computer laboratory with high speed internet facility to enable students for global competitiveness. College is also planning to establish language laboratory in near future.

The college is aiming to provide the best amenities to students. The Boys hostel "Dandakaranya" with capacity of 162 students and Girls hostel "Shabri" with capacity of 93 students. The College has playground for various sports activities and Gymnasium for boys and girls separately. The students are participating in college, university, inter university and national level sports viz., kabbaddi, kho-kho, badminton, volley ball, cricket and basket ball and cultural competitions viz., drama, folk dance, mono acting, mimicry, musical events, agri unifest etc. and won number of prizes/medals.

College also conducts Student Ready and RAWE programme for final year students. The RAWE Programme covers a wide range of topics and it offers a direction to the students to develop their competence, capacity and ability to acquire an expertise. The college biannually publishes "Dandakaranya" magazine every year, which is a sign of extracurricular activities of students as well as faculties of College of Agriculture, Waghai.

The faculties of college are working hard to fulfill the 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."

2. Academic Information

- List of Departments



- Academic Programmes

Degree Programme	Duration	Total Credit (T+P)
B. Sc. (Hons) Agriculture	8 Semesters	89+97=186
M.Sc. (Agri.)	4 Semester	-
Ph.D.	6 Semester	-

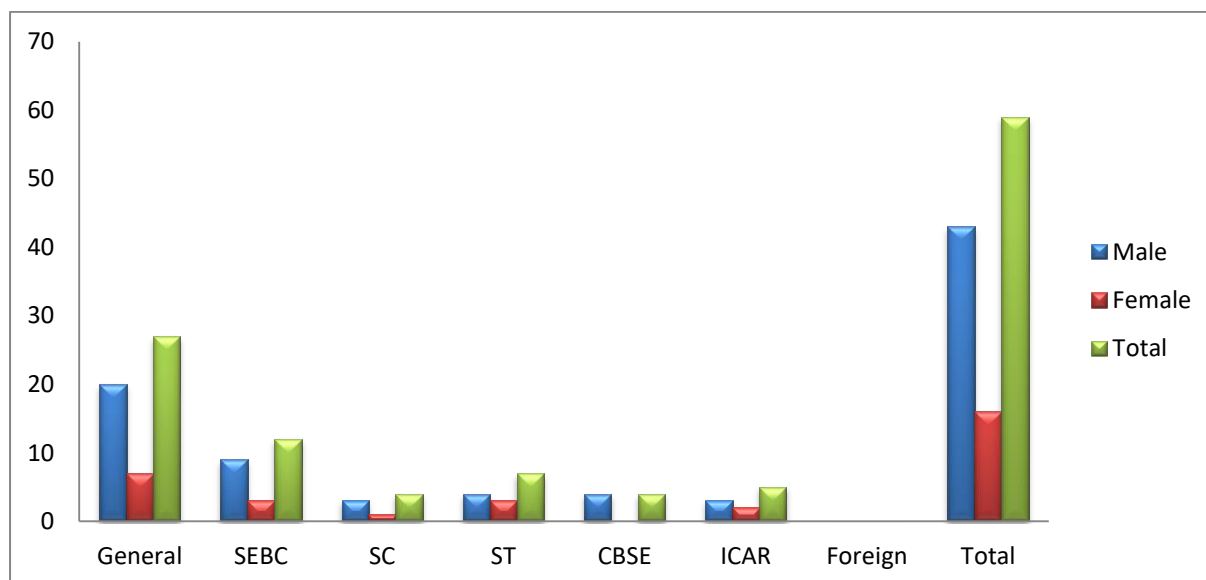
• Under Graduate syllabus

Semester	Number of Courses	Total Credit (T+P=)
First Semester	11	14+8=22
Second Semester	11	17+9=26
Third Semester	10	15+9=24
Fourth Semester	12	15+10=25
Fifth Semester	11	14+10=24
Sixth Semester	11	14+11=25
Seventh Semester	01	0+20=20
Eight Semester	01	0+20=20
Total		89+97=186

3. Student related Information

• Summary of students admitted during the year 2018-19

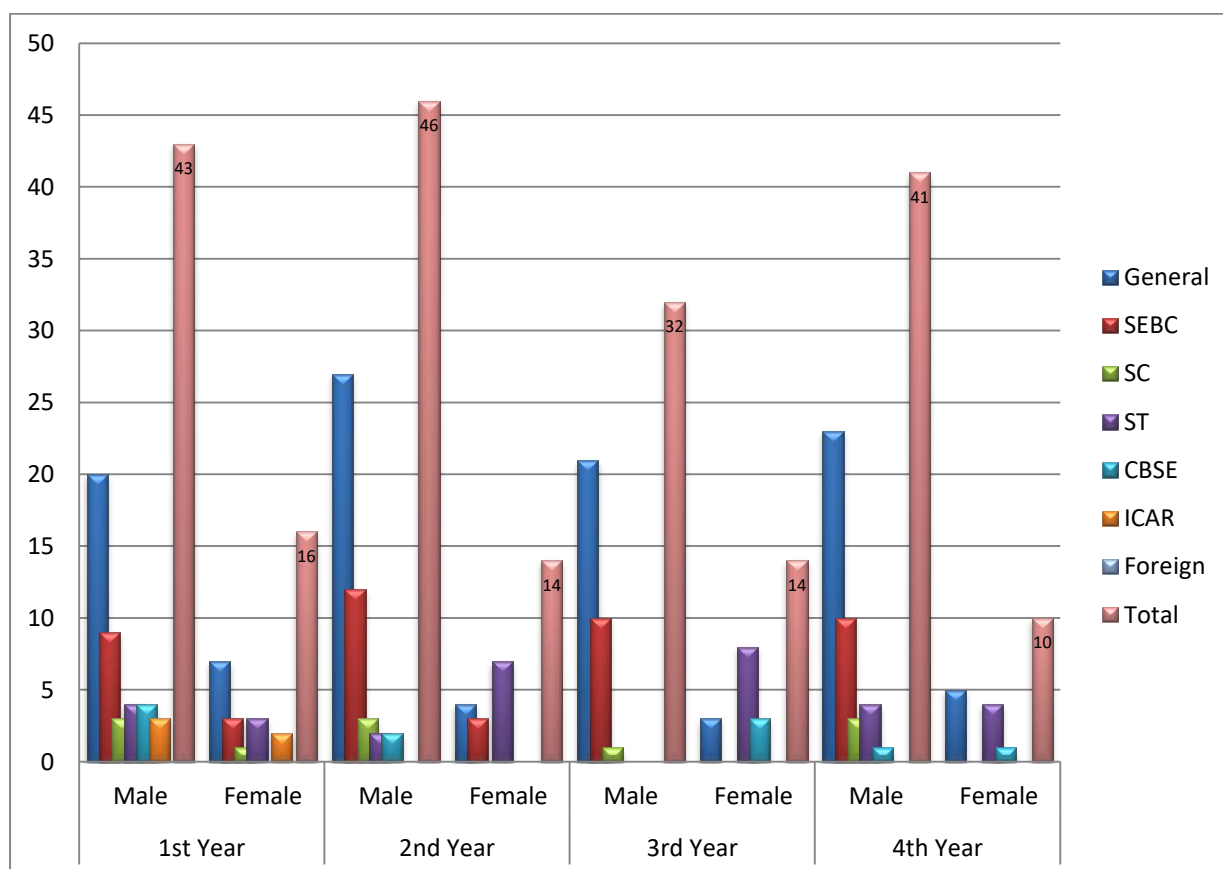
Degree	Gender	Intake capacity	Gen	SEBC	SC	ST	CBSE	ICAR		Foreign	Total
								Guj.	Other*		
B.Sc. (Hons.) Agri.	Male	70	20	09	03	04	04	-	03	-	43
	Female		07	03	01	03	-	-	02	-	16
	Total		27	12	04	07	04	-	05	-	59
Grand Total			27	12	04	07	04	-	05	-	59



Summary of Admitted Student during 2018-19

• Summary of students enrolled

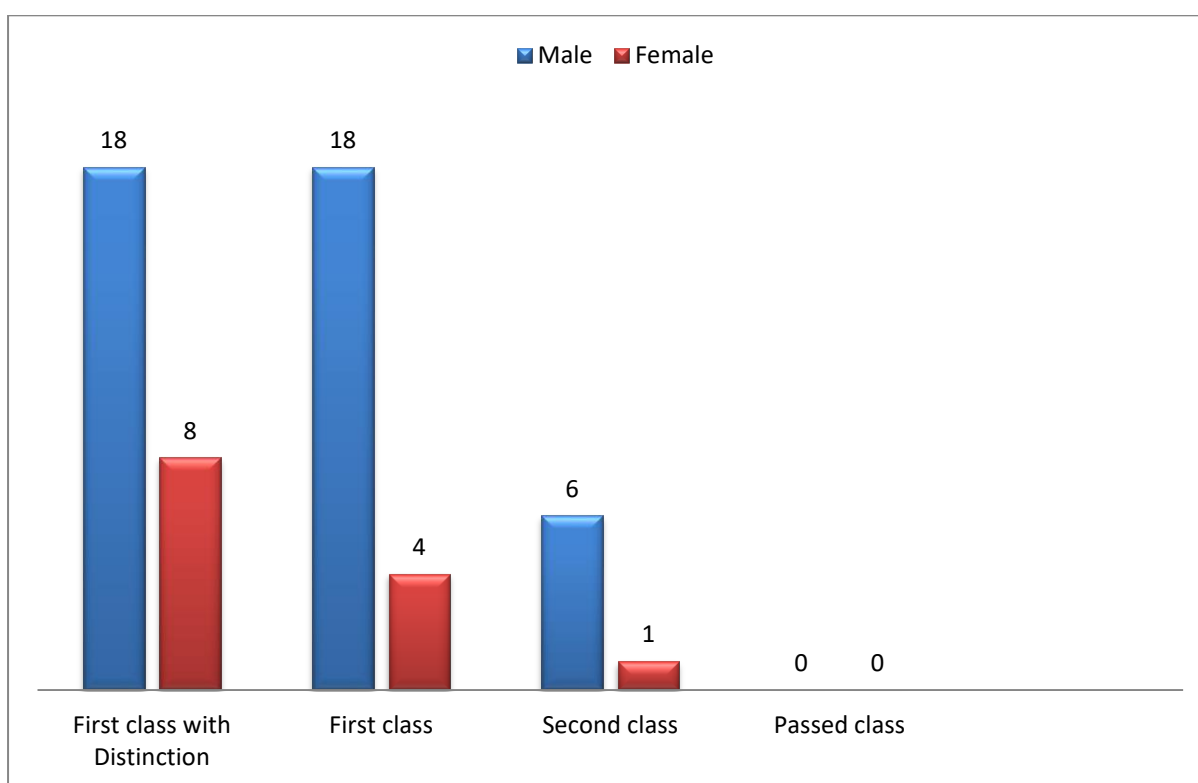
Degree	year	Gender	Gen	SEBC	SC	ST	CBSE	ICAR		Foreign	Total
								Guj.	Other*		
B.Sc.	1	Male	20	09	03	04	04	-	03	-	43
		Female	07	03	01	03	-	-	02	-	16
	2	Male	27	12	03	02	02	-	-	-	46
		Female	04	03	-	07	-	-	-	-	14
	3	Male	21	10	01	-	-	-	-	-	32
		Female	03	-	-	08	03	-	-	-	14
	4	Male	23	10	03	04	01	-	-	-	41
		Female	05	-	-	04	01	-	-	-	10
	Total		110	47	11	32	11	-	05	-	216
	Grand Total		110	47	11	32	11	-	05	-	216



Summary of students enrolled

- Summary students of passed out (2018-19)

Gender	Distribution of students in different classes				
	First with Distinction	First class	Second class	Passed class	Total
Under Graduate					
Male	18	18	6	-	36
Female	08	04	1	-	12
Total	26	22	7	-	48



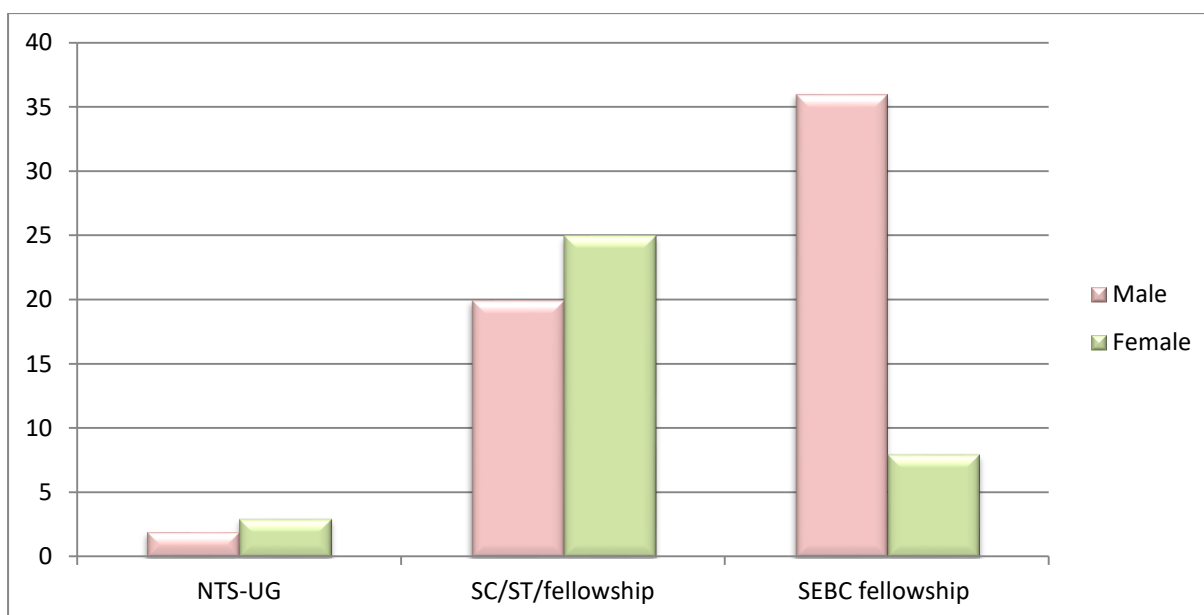
Summary students of passed out (2018-19)

- Cut off marks for admission to UG degree Programme (2018-19)

Sr. No	Category	Minimum requirement of Marks (%) (PCB)	Cut of Marks (%)
1	General	40	64.37
2	ST	35	49.58
3	SC	35	49.35
4	OBC/SEBC	40	64.19
5	Other Board	-	48.71

- Students Financial aid

Name of the fellowship	Under-graduate		Total
	No. of Students		
	Male	Female	
NTS-UG	02	03	05
SC/ST/fellowship	20	25	45
SEBC fellowship	36	08	44
Total	58	36	94

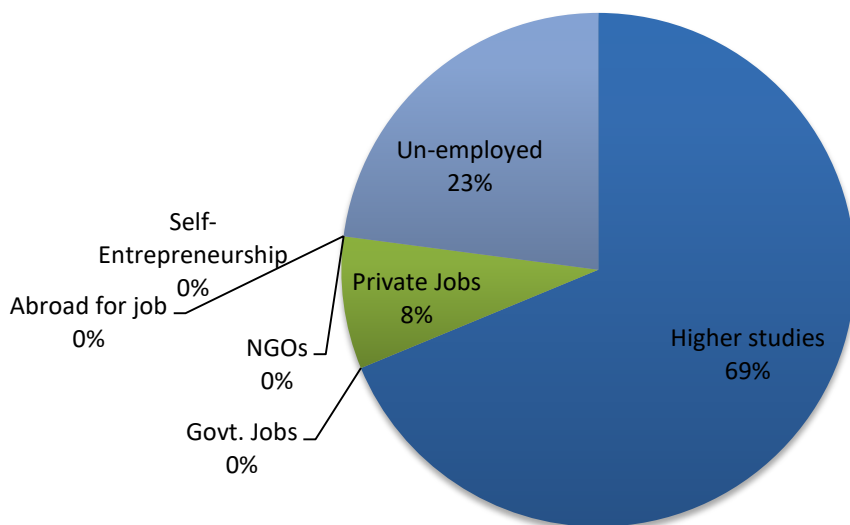


Number of students qualified JRF during year/Number of UG students passed out

Year	Number of students got JRF	Number of UG students passed out
2018-19	-	48

4. Placement Cell/ Counseling Centre

Degree Programmes	Total Passed out	Higher studies		Govt. Jobs	Private Jobs	NGOs	Abroad for job	Self-Entrepreneurship	Un-employed
		Gujarat	Other State						
B.Sc.	48	33	-	-	04	-	-	-	11
M.Sc.	-	-	-	-	-	-	-	-	-
Ph.D.	-	-	-	-	-	-	-	-	-
Total	48	33	-	-	04	-	-	-	11

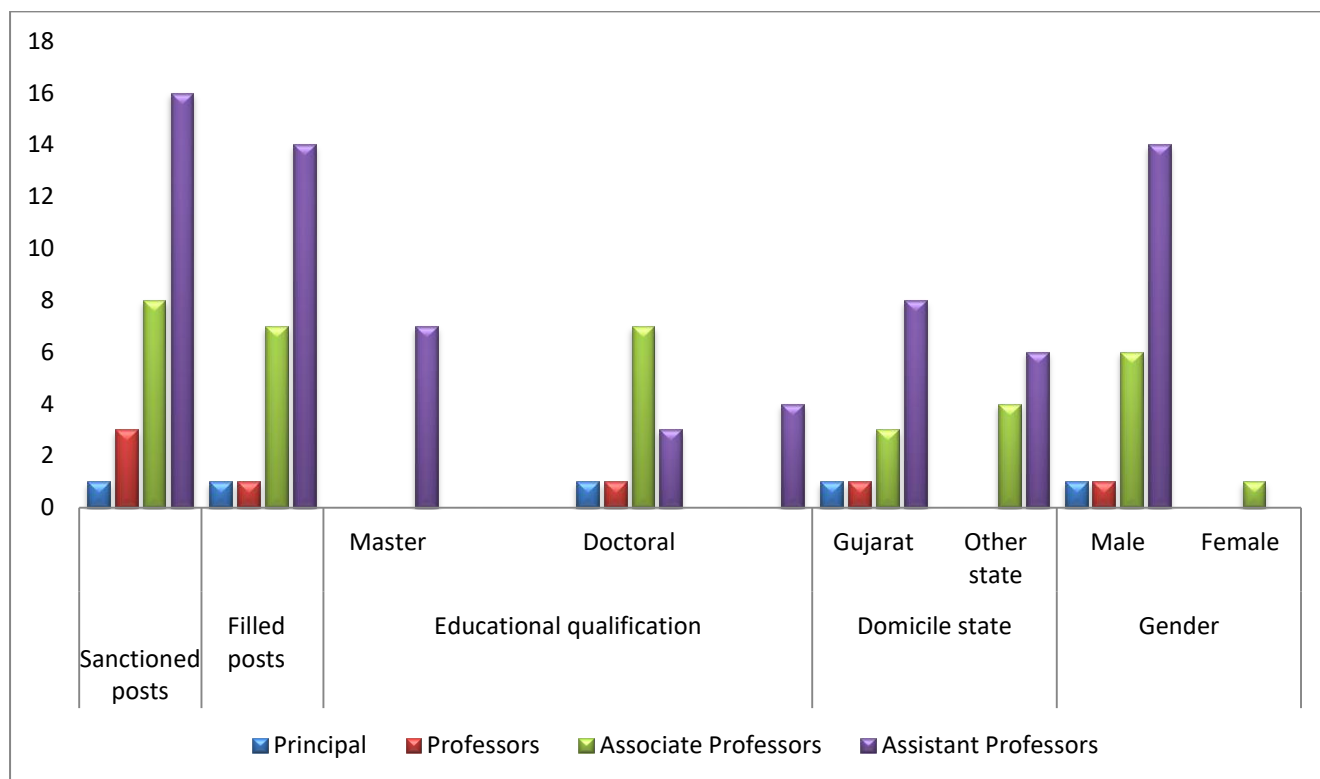


5. NSS activities

SN	Activity	No of Volunteers
1.	Van-Mahotsav : 21-07-2018	100
2.	Awareness about Foot & Mouth Disease among animal : 24-09-2018	90
3.	Awareness camp about Pradhanmantri Ujjawala Yojana & RTI : 20-11-2018	90
4.	Awareness camp about Pradhanmantri Ujjawala Yojana & RTI : 20-11-2018	100
5.	Celebration of Constitution Day : 26-11-2018	80
6.	Yoga day : 21-06-2019	80
7.	Thalassemia Check-up & Blood donation camp : 18-02-2019	50
8.	International women day : 08-03-2019	85

6. Faculty information

Sr. No.	Name of the Post	Sanctioned posts	Filled posts	Composition of filled post							
				Educational qualification				Domicile state		Gender	
				Master		Doctoral		Gujarat	Other state	Male	Female
				Gujarat	Other state	Gujarat	Other state				
1	Principal	01	01	-	-	01	-	01	-	01	-
2	Professors	03	01	-	-	01	-	01	-	01	-
3	Associate Professors	08	07	-	-	07	-	03	04	06	01
4	Assistant Professors	16	14	07	-	03	04	08	06	14	-
Total		28	23	07	-	12	04	13	10	22	01
Percentage of total filled post			82 %	30.43 %	-	52.17 %	17.39 %	56.52%	43.48 %	95.65 %	4.35%



7. Publications

- **No. of research articles published during year 2018-19**

Particulars of NAAS rated articles	Category	No. of articles
No. of research articles having NAAS rating of between 5.0 to 7.0	National	06
	International	01
No. of research articles in high impact journals (NAAS rating of over 7.0)	National	-
	International	-
No. of research articles having NAAS rating of below 5.0	National	06
	International	01
Book/chapters/Training manual		-

- **Research publications**

1. Gadhiya V. C. and **Pastagia J. J.** (2019) Time spent by stingless bees, *Tetragonula laeviceps* for nectar and pollen collection from musk melon flower. *Journal of Entomology and Zoology Studies* **7** (1): 498-500. (NAAS – 5.53)
2. Kachhela H. R. and **Pastagia J. J.** (2018) Abundance of flower visitors and their foraging behaviour in niger. *Journal of Entomology and Zoology Studies* **6** (6): 562-564. (NAAS – 5.53)
3. Kachhela H. R. and **Pastagia J. J.** (2018) Effect of abundance of pollinators on yield parameter of Niger, *Guizotia abyssinica* (L.f.) Cass. Grown at different dates of sowing. *Journal of Entomology and Zoology Studies* **6** (5): 2393-2396. (NAAS – 5.53)
4. V. P. Prajapati*, Pushpendra Singh and **A. J. Deshmukh** (2018) First Report of Root Knot (*Meloidogyne incognita*) on Okra (*Abelmoschus esculentus* (L) moench) in Dang District of Gujarat. *International Journal of Economic Plants* 2018, **5** (3):154-156 (NAAS – 4.20)
5. **A. J. Deshmukh** and A. N Sabalpara (2019) Symptomatology, association and pathogenicity of seed Mycoflora in green gram. *The Pharma Innovation Journal* 2019; **8**(4): 733-736 (NAAS – 5.03).
6. **A. J. Deshmukh** and A. N Sabalpara (2019) Field effect of seed biopriming on Alternaria leaf spot of Green gram. *The Pharma Innovation Journal*. 2019; **8** (6): 195-199 (NAAS – 5.03)
7. **Arhant Arvind**, Thorat Vishal and Choudhary Kuldeep. (2019) An Economic Impact of Kishan Credit Card (KCC) Scheme in Tribal Area of Gujarat (India). *International Journal of Latest Technology in Engineering, Management & Applied Science*, 139-150 Vol V, Issue XII, 2278-2540.

8. **Solanki, P. I** , (2019), Treatment of ‘Death’ in the poems of Phillip Larkin: The Old Fools and Ambulances, *Review of Research* 2249-897X p.65-66
9. **Patel Milan P.** and Chaudhari Ankur D. (2018) A Comparative Study of South Gujarat Urban and Rural Secondary Schools Students’ Mental Health. *International Journal of Trend in Scientific Research and Development* **3** (1): 295-298. (Impact Factor 5.125)
10. **Patel Milan P.** and Patel Vijaybhai D. (2019) A Comparative Study of Selected Physical Fitness and Physiological Components Among the Players of Kabaddi and Kho-Kho of N.A.U., Navsari. *International Journal of Physical Education Sports Management and Yogic Sciences* **9** (2): 17-25. (Impact Factor 0.671)
11. L.M. Sorathiya, K.K. Tyagi, **M.D. Patel** and A.P. Raval, 2018, Effect of Non-Genetic Factors on Milk Compositions in Surti Buffaloes, *Indian Vet. J.*, 95 (01) : 43-45 (NAAS - 4.42)
12. N.F. Chaudhari*, C.T. Khasatiya, **M.D. Patel**, V.S. Dabas, S.S. Chaudhari, J.H. Patel and K.K. Tyagi, 2018, Comparative studies of certain stress markers and trace minerals in normal cyclic and anoestrus surti buffaloes, *Buffalo Bulletin*, 37 (4): 527-534. (NAAS – 6.10)
13. H.K.Patel, **M.D.Patel**, I.H.Kalyani, Niranjani Kumar, K.K.Tyagi and L.M.Sorathiya, 2018, Incidence of Anaplasmosis in Buffaloes in and Around Navsari and Efficacy of Diagnostic Tests, *The Indian Journal of Veterinary Sciences & Biotechnology*, 14(1): 17-21 (NAAS – 4.47)
14. H.R. Savani, C.T. Khasatiya, S. Saxena, **M.D. Patel**, V.R. Patel, L.C. Modi, and N.F. Chaudhary, 2018, Cervical mucus fern pattern in relation to fertility and micro-mineral profile in anestrus surti buffaloes subjected to ovsynch alone and in combination with prid, *Indian Journal of Animal Reproduction* 40 (1): 45-46 (NAAS – 3.43)
15. T. N. Parmar, N.M. Zalawadia, R. R. Sisodiya and **H. P. Patel** (2018). Accumulation of Iron and Zinc under intensive cropping with long term fertilizer application in calcareous vertic ustocrepts soils. *International Journal of Chemical Studies*. Vol. **6** (3) pp. 944-947 (NAAS – 5.31)
16. N. M. Thesiya, **H. P. Patel** and H. Sharma (2019). Residual effect of integrated nutrient management in little millet on growth and yield parameters of Rabi-green Gram under Little Millet- green Gram Cropping Sequence. *Agricultural Science Digest*. Vol. **39** (2)pp. 128-131 (NAAS – 4.21)
17. J. B. Dobariya, N. M. Thesiya and **R. P. Bambhrolia** (2018) Attitude of Beneficiary Farmers toward Activities of Krishi Vigyan Kendra of Dang District. *J Krishi Vigyan* **7**(1) : 39-43 (NAAS – 4.41)
18. N. M. Thesiya, D. M. Damasia and **R. P. Bambharolia** (2019) Effect of integrated nutrient management on grain yield, quality and nutrient content and uptake of little millet under little millet-green gram cropping sequence. *Crop Res.* **54** (3 & 4) : 70-74 (NAAS – 4.60)

8. HRD Information

- Participation of Scientists in Conference/ Seminars/ Symposia/ Workshops/Trainings

Particulars	Participants
Seminar/Symposia/Conference	07
Winter/Summer Schools	05
Workshop/Short term training	02
Total	11

- Staff attended Seminar/Symposia/Conference during the year 2018-19

Sr. No.	Names	Details of seminar/ conference/ Symposium	Place	Date/ Period	Durati on
1	Dr. Pastagia J. J.	Participated the National Symposium on “Sustainable Management of Pests and Diseases in Augmenting Food and Nutritional Security”	Aspee College of Horticulture & Forestry, NAU, Navsari	January 22-24, 2019	3 days
2	Dr. Pastagia J. J.	Presented lead paper on “Role of pollinators in increasing crop productivity” in National Symposium on “Sustainable Management of Pests and Diseases in Augmenting Food and Nutritional Security”	Aspee College of Horticulture & Forestry, NAU, Navsari	January 22-24, 2019	-
3	Dr Amol J. Deshmukh	National Symposium on Sustainable Management of Pests and Diseases in Augmenting Food and Nutritional Security	Aspee College of Horticulture & Forestry, NAU, Navsari	22-24 Jan, 2019.	3 days
4	Dr. Vipul T. Shinde	Workshop-cum-training on “Application of remote sensing and GIS in Agriculture”	Department of Agricultural Engineering, NM College of Agriculture, NAU, Navsari	4-6 February 2019	3 days

5	Dr. Vipul T. Shinde	ISPP West Zonal Seminar on “Emerging trends in plant physiology for crop production under climate change scenario”	MPKV Rahuri & ISPP New Delhi, at MPKV Rahuri, Maharashtra	August 4, 2018	1 day
6	Rajendrakumar P. Bambharolia	Poster presented in the National Symposium on “Sustainable Management of Pests and Diseases in Augmenting Food and Nutritional Security ”	Aspee College of Horticulture & Forestry, NAU, Navsari	January 22-24, 2019.	3 days
7	D.M. Damasia	Poster presentation in national symposium on Sustainable management of pest and diseases in augmenting food and nutritional security	Aspee College of Horticulture & Forestry, NAU, Navsari	22-24 Jan, 2019.	3 days

- List of faculties participated in Summer/winter/short course during the year 2018-19

Sr. No.	Name	Summer/winter school details	Date/Period	Place	Duration
1	Dr Amol J. Deshmukh	Biotechnological interventions to enhance crop productivity under stress conditions	25th July to 14th August - 2018	Rajasthan Agricultural Research Institute, Durgapura, Rajasthan	21 days
2	Pragnesh I Solanki	Refresher Course on Research Methodology	09/07/2018 to 29/07/2018	HRDC Gujarat University, Ahmedabad	21 days
3	Rajendrakumar P. Bambharolia	"Emerging Food Processing and Packaging Technologies: A Drive for Economic Opportunities"	11/07/2018 to 31/07/2018	Professor Jayashankar Telangana State Agricultural University, Rajendranagar, Hyderabad.	21 days
4	D.M. Damasia	"Emerging food processing and packaging technologies: A drive for Economic Opportunities"	11-07-2018 to 31-07-2018	Professor Jayashankar Telangana State Agricultural University, Rajendranagar, Hyderabad	21 days
5	Dr Pushpendra Singh	Biotechnological interventions to enhance crop productivity under stress conditions	25th July to 14th August - 2018	Rajasthan Agricultural Research Institute, Durgapura, Rajasthan	21 days

• Participation in workshop/short term training during the year 2018-19

Sr. No.	Names	Details of workshop/short term training	Place	Date/ Period	Durati on
1	Dr. Pastagia J. J.	Participated the National workshop on “Yogic Farming, Organic Farming and Zero Budget Natural Farming”	B. A. College of Agriculture, AAU, Anand	September 17-18, 2018	2 days
2	Dr.Arvind Arahant	Participate in Three days training/workshop on “PRA tools and Techniques for SREP Development” on 15th November to 17th November, 2018 at Agriculture Technology and Information Center(ATIC), NAU (Gujarat) organized by Extension Education Institute (EEI), Govt. of India.	Extension Education Institute (EEI), Govt. of India.	15th & 17th November, 2018	3 Days

• List of TV/ Radio talks

Sr. No.	Name of faculty	Topic/title	Date	Radio/ TV talk
1	H. P. Dholariya	Jamin Tatha Panini Chakasani ane teni Upyogita	23/04/2019	Expert in Krishidarshan Programme at Doordarshan DD Girnar TV Talk
2	H. P. Dholariya	Jamin Swasthay ane Jaminni Chakasani Mate Namuna Levanu Mahatva	23/05/2019	All India Radio Prasar Bharti Akashvani - Daman
3	Rajendrakumar P. Bambharolia	મશરૂમની ખેતી પદ્ધતી અને તેની ઉપયોગીતા	11/03/2019	Radio
4	D.M.Damasia	Fal Ane velavala sakbhaji pakoma falmakhinu niyantran	11/03/2019	Radio

• Ongoing Educational/research/ Extension projects:

Sr. No.	Name of the projects	Funding agency	Location
1	Establishment of Center of Excellence on Mushroom Research at Dang District	RKVY	Waghai
2	Establishment of Bio-Agent Production Unit for Organic Dang	NHM	Waghai
3	Screening of Little millet (<i>Panicum miliare</i> L.) varieties and germplasms against Blast (As PI)	Departmental trial	HMRS Farm, Rajendrapur
4	Biological management of foot rot in Finger millet (As PI)	Departmental trial	HMRS Farm, Rajendrapur
5	Biological management of wilt in chickpea (As PI)	Departmental trial	HMRS Farm, Rajendrapur
6	Quality Planting Material Production in Horticultural Crops	Educational division ICAR - TSP	Waghai
7	Agricultural Waste Management through vermicompost	Educational division ICAR - TSP	Waghai

• Experiential Learning Unit

1.	Title of ELU	Quality Planting Material Production in Horticultural Crops
	Year of establishment	2018
	PI	Dr. Binayak Chakraborty
	Activities	The grant was sanctioned in February, 2019. The purchasing of inputs and procedure for construction of civil works has been completed and after rainy season the work will start for working shed, net house and poly tunnel but the vetting proposal for greenhouse and Laboratory cum storage was not sanction. Planning is done for organizing training in next week in July, 2019.
	No. Students Beneficiaries	Nil
	Amount earned per student	Nil
2.	Title of ELU	Agricultural Waste Management through vermicompost
	Year of establishment	2018
	PI	Dr. Ajay P. Patel
	Activities	The grant was sanctioned in February, 2019. The purchasing of inputs and procedure for construction of civil works has been completed and after rainy season the work will start. Planning is done for organizing training in next week in July, 2019.
	No. Students Beneficiaries	Nil
	Amount earned per student	Nil

9. Photo Gallery

• Student's activities



Van-Mahotsav : 21-07-2018



Awareness about Foot & Mouth Disease among animal : 24-09-2018



Awareness camp about Pradhanmantri Ujjawala Yojana & RTI : 20-11-2018



Celebration of Constitution Day : 26-11-2018



Yoga day : 21-06-2019



Legal awareness seminar on women related laws : 14-02-2019



Thalassemia Check-up & Blood donation camp : 18-02-2019



International women day : 08-03-2019



Intercollegiate cultural competition (Gunjan – 2019)



College of horticulture visit, Himachal



Technology institute visit



Farmer's field visit

Visits of Dignitaries

- ❖ **Dr. P. S. Pandey (Assistant Director General, EP&HS, ICAR)**
Assistant director general, Dr. P. S. Pandey visited College of Agriculture, Waghai on 31st may, 2019.

