



DEPARTMENT OF EXTENSION EDUCATION
N. M. COLLEGE OF AGRICULTURE
NAU, NAVSARI

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ACTIVITIES OF DEPARTMENT OF EXTENSION EDUCATION

Arrangements for agricultural extension in India have grown, over the last five decades, in terms of activities, organizational types and available manpower. The agricultural education has to evolve in tune with fast changing of State and National scenario. Generation of new technology and its effective dissemination to those farmers who need them is highly important in order to satisfy the changing needs of community. Agricultural extension is the application of scientific research and new knowledge of agricultural practices through farmer education. The field of extension encompasses a wider range of communication and learning activities organized for rural people by professionals from extension discipline. Public sector extension, represented mainly by the Department of Agriculture and Cooperation, continues to be the most important source of information for the majority of farmers. The setup mechanism in effective manner can play pivotal role for transforming the latest technology through communication network. The Researchers, Extension scientist and Workers are the key players in the process of agriculture development. The need is obvious and especially for the rural economy with its major component of agriculture and allied to keep pace with the brisk changes of modern times. In other words the rural people should know and adopt appropriate agricultural recommendations from time to time and also provide their feedback to the researchers through setup mechanism. The researchers neither have the time nor are they equipped for the job to adopt scientific technologies here, extension has to behave as a bridge between the farmers and researchers. Therefore, the extension is being taught at undergraduate and postgraduate levels in agricultural faculty and for that the extension teaching / training techniques are also being taught to develop dynamic professionals as well as civilized citizens. The Department of Extension Education started with following three activities in 1967 through the inspection of N.M. College of Agriculture, Navsari.

- (i) Teaching the Extension Education,
- (ii) Extension Research, and
- (iii) Field Extension

(i) TEACHING THE EXTENSION EDUCATION

The faculties of the extension education discipline are educating the undergraduate and postgraduate students with the best course of action considering the objectives of teaching.

Teaching at Undergraduate level:

Teaching extension education, its methodology in the midst of sociological and psychological aspects with applications is being taught by following the methods of formal education at undergraduate level. The following nine courses which contain 16 credits are being taught by faculties.

Sr.	Course Code	Title of the Courses	Credits
1.	Ag.Extn.3.1	Dimensions of Agricultural Extension	1+1
2.	Ag.Extn.4.2	Fundamentals of Rural Sociology & Edu. Psychology	2+0
3.	Ag.Extn.5.3	Extension Methodologies for Transfer of Agril. Technology	1+1
4.	Ag.Extn.6.4	Entrepreneurship Development	1+1
5.	Ag.Extn.7.5	Rural Agricultural Work Experience Programme*	0+2
6.	Ag.Extn.8.6	Agricultural Journalism	2+1
7.	Ag.Extn.8.7	Visuals and Graphic Communication	2+1
8.	Ag.Extn.8.8	Behavioural Skills	2+1

The practical exposure about instructional / teaching tools and methods are given in well established audio visual laboratory and aspects related to field are being provided by visiting the different institutions. Moreover, this department is acting as Nodal Department to manage 20 weeks Rural Agricultural Work Experience Programme (RAWEP) by involving all departments of agriculture faculty for the students of seventh semester. The RAWEP programme is being executed on the recommendation of 4th Dean's committee. This programme is classified in to seven phases where, students are orientation for RAWEP programme, high tech cells, location /crop specific research stations, training institutions of the university, well established agro based industries with various types of cooperative societies, well structured and reputed non-government organizations and last but not list, the students are deputed to the innovative / progressive farm families of South Gujarat.

Student READY Programme

Reorientation of graduates in agriculture/allied subjects for ensuring and assuring employability and develop entrepreneurs for emerging knowledge intensive agriculture, the component envisage the introduction of the programme in all the Agricultural Universities as prerequisite for the award of degree to ensure hands on experience and practical training. Conceptualize the thought and suggestion made by 5th Dean Committee the Student READY Programme (Student Rural Entrepreneurship Awareness Development Yojana) was launched by Hon^{ble} Prime Minister of India Mr. Narendra Modi on 25th July, 2015.

The faculty of Agriculture of Navsari Agricultural University, Navsari has introduced the Student READY Programme in the academic year 2016-17. There two components are being offered to the students of 7th and 8th semesters class. i) Rural Awareness Works Experience Programme (RAWEP) and ii) Experiential Learning Programme (ELP).

1.0 INTRODUCTION

Experiential learning is a kind of unique way of learning process which is totally different from conventional way of class-room teaching and learning. The concept of experiential learning system primarily focuses on how the students think and acts in the world. This learning process imparts a direction to the students to think and act which creates self-confidence. The experiential learning approach is a learner-centred approach which allows the student to manage and share responsibilities for his learning with his instructor and hosts where a teacher will act as a facilitator in the learning process and such minor changes would create thinking capacity of the student on important issues around him in agricultural areas.

The RAWEP Programme covers a wide range of topics like sensitization of students to the socio-economic, socio-psychological and ecological situation of rural areas, group learning, farm and home economics, diagnosis the pests and diseases including weeds, hints on animal husbandry, horticulture, agricultural engineering and all vital topics such as bio-fertilizers, bio-pesticides, physiological disorder.

Experiential learning is the basic approach towards problem solving in which learning is for improving interaction with out-side work. The learning process imparts a direction to the students to think and act which create self-confidence. Self-confidence is the key element, which primarily trains the students at different phase. It offers a direction to the students to develop their competence, capacity and ability to acquire an expertise.

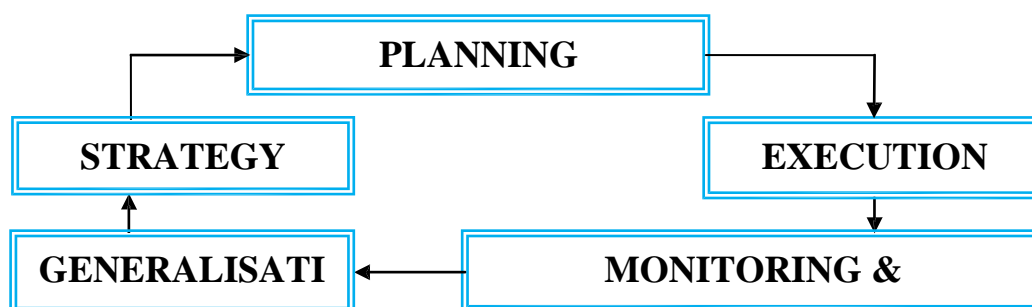
However, it requires the interest of an individual with total commitment, active participation, dedication and moreover a visionary mission. A comprehensive programme provides opportunities to the students of seventh semester B. Sc. (Hons.) Agriculture. This work experience gives an insight to review and helps to draw some useful conclusions / decisions to apply in practical life and in different field situations.

2.0 Rural Awareness Works Experience Programme:

2.1 Planning of RAWE Programme

RAWE Programme designed for 20 weeks, therefore advance planning and programming is to be framed. The Principal / Dean the college will be designated as the Chairman and provide necessary resources-material, finance, manpower, vehicles, etc. and ensure participation of the designated teachers in the RAWE activities. The Coordination Committee for RAWE is consisting of:

1	Principal / Dean of Faculty-----	Chairman
2	Head of Extension Education -----	Coordinator
3	Representative of State Dept. of Agriculture/Horticulture-----	Member
4	Off campus representation (1) -----	Member
5	Student representative (2) -----	Member



(Paradigm of RAWE programme of N. M. College of Agriculture, NAU, Navsari)

2.2 Expected Out-Come from the RAWE Programme:

- | | |
|----------------------------------|-------------------------------|
| ➤ Self-confidence | ➤ Art of negotiation |
| ➤ Self-management | ➤ Practicing method |
| ➤ Experience | ➤ Team work |
| ➤ Managing relationship | ➤ Feedback |
| ➤ Observe problem | ➤ Curative thinking |
| ➤ Understanding the rural life | ➤ Listening habit Conflict |
| ➤ Time management | ➤ management Money |
| ➤ Perception of situation | ➤ management Working |
| ➤ Working with local institution | ➤ with local leaders Decision |
| ➤ Personality development | ➤ making ability |
| ➤ Group atmosphere | ➤ Competence building |

3.0 OBJECTIVES OF RAWE PROGRAMME

- 3.1 To provide an opportunity to the students to understand the rural setting in relation to agriculture and allied activities
- 3.2 To make the students familiar with socio-economic conditions of the farmers and their problems
- 3.3 To impart diagnostic and remedial knowledge to the students relevant to real field situations through practical training
- 3.4 To develop communication skills in students using extension teaching methods in transfer of technology
- 3.5 To develop confidence and competence in students to solve agriculture problems
- 3.6 To acquaint students with on-going extension and rural development programmes.

4.0 DURATION OF RAWE PROGRAMME

The RAWE programme was introduced in agriculture faculty on the recommendation of 3rd Deans' Committees was introduced in the year 2003-04, 4th Deans' Committees was introduced in the year 2006-07. Further, in the year 2016-17 the 5th Deans' Committee suggestions were introduced in Agricultural faculty of NAU, Navsari. The seventh semester was earmarked for the same and it contains 20 credits as well as run for 20 weeks.

The Student READY Programme where in Rural Awareness Works Programme (RAWEP) has been introduced in 7th semester and Experiential Learning Programme (ELP) in 8th semester of B. Sc. (Hons.) Agriculture class with 10 modules. Since beginning, fifteen batches were 1086 students had successively completed the programme. Every new batch starts from July-August.

4.1 Guidance to students

For each batch of about 35 students, there will be a designated RAWE teacher from all the disciplines, who will continuously stay together with students during their placements in rural areas to guide, supervise and monitor the work of students on daily basis. The designated teachers from the courses related to the subject matter areas will visit at least twice a week to guide the students on technological aspects and to solve the problems, which are beyond the competence of students as well as to evaluate the performance of the students on the concerned subject. They will also stay overnight once in a fortnight to support the students during the extension educational activities conducted during evening hours.

4.2 Monitoring and coordination

A teacher from the Department of Agricultural Extension will be designated as the coordinator to facilitate the teachers and students during rural placements. The coordinator in liaison with KVK/ZRS/NGO and other development departments will arrange logistics for the teachers from other departments to organize the follow up visits of teachers to villages after the return of the students to ensure continued technical support to farmers, till the end of crop season.

4.3 Stipend /Grants

The stipend shall be considered from the month when a student joins the RAWE programme. The expenditure involved will be met from the plan fund of ICAR under the scheme „Strengthening & Development of Higher Agricultural Education in India“; the sub component is „Student READY“. For availing grant, the college/university will have to submit demand to ICAR as per rule in advance.

The stipend payable to the student shall be Rs.3,000/- (Rs. 2500/ as ICAR share + Rs. 500/- as State share) per month for maximum six months. The university must provide the State Share of Rs. 500/- per student per month and failing which ICAR may stop grants to the university. Further, an amount of Rs. 500/- per student per month will also be provided as ICAR share towards operational expenses (meeting faculty expanses, contingency, POL, medicines etc.) during the programme.

The college/university shall transfer the stipend in to student's bank account and ensure the Direct Benefit Transfer (DBT) which will be linked to AADHAR (UDI) of the student beneficiary. The college/university will provide a copy of compiled bank statement to ICAR, New Delhi every year. The stipend will be terminated, if a student will leave the course before its completion. No stipend will be paid if the student changes discipline or the university without any valid reason and prior permission of the Competent Authority.

4.4 Focus on

1. Interactions with farmers, KVK, ZRS, NGO, State Department and Industries
2. Knowledge on present status and scope of improvement in rural areas
3. Decision on major interventions to bring about economic security to farmers
4. Innovations
5. New technologies/ideas
6. Attachment with “Bharat Nirman Volunteers”
7. Study on Biodiversity and Germplasm collection

4.5 Distribution of credit hours

1.	Orientation.....	3
2.	Socio-economics survey and on-campus training.....	3
2.	Village attachment.....	8
3.	Industrial attachment.....	4
4.	Report writing, Group discussion, Presenting and Viva-voce.....	2
	Total Cr. Hours	20

3.6 Break-up of RAWE programme for 7th semester

Sr.	Particular Activities	Duration
P-1	Registration and Orientation from the disciplines	15 days
A.	Agronomy	1 day
	<ol style="list-style-type: none"> 1. Input use efficiency, crop productivity trends. 2. Crop diversification possibilities 3. On-farm water management, watershed management 4. Integrated farming system, precision and conservation of agriculture. 	
B.	Soil Science	1 day
	<ol style="list-style-type: none"> 1. Natural resource management 2. Diagnosis and management of problematic soils 3. Problems and Prospects of Organic farming 4. Identification of major and minor element deficiency symptoms in field crops/horticultural crops 5. Soil and water quality, residue management. 6. SSNM and Nutrient Expert 7. Soil Fertility mapping. 	
C.	Entomology	1 day
	<ol style="list-style-type: none"> 1. Field-plot inspection-general instructions finding out clues for diagnosis. 2. Study the symptoms of major plant crop pest. 3. Identification/diagnosis of major insect-pests, damage symptoms in field, fruit, vegetable and ornamental crop plants. 4. Bio-pesticides and their use 	
D.	Plant Pathology	1 day
	<ol style="list-style-type: none"> 1. Field-plot inspection-general instructions finding out clues for diagnosis study of field and plant pattern of damage and symptoms. 2. Diagnosis of major diseases of field, fruit, vegetable and ornamental crop, plants and control. 3. Mushroom cultivation and value addition. 	

Sr.	Discipline	Duration
E.	Agricultural Engineering 1. Farm machinery and equipments. 2. Setting up and maintenance of irrigation systems and farm ponds. 3. On-farm water management 4. Watershed management 5. Poly-house construction and maintenance etc. 6. Post harvest processing and storage techniques. 7. Laser leveling	1 day
F.	Horticulture a) Vegetables 1. Nursery techniques 2. Crop management of Vegetables and Spices. b) Fruit crops 1. Layout & planting techniques of major corps. 2. Training and pruning of crops. 3. Marketing and value addition. 4. Orchard management 5. Fruit based land use system; Multi-layer cropping. c) Floriculture 1. Management practices of Rose, Gladiolus and chrysanthemum. 2. Landscape gardening.	2 days
G.	Agricultural Statistics and computer application 1. Statistical tools and their application	½ day
H.	Plant Physiology 1. Physiological disorders in crops.	½ day
I.	Plant Breeding and Genetics and Seed Technology 1. FLDs 2. Visit to crop improvement experiments to get acquainted with – a) On-going varietal trails, b) Breeding methods, c) Screening techniques d) Methods of recording data and e) Improved varieties, their salient features. 3. Seed organizations (public and private) in seed production. 4. Seed production of different crops undertaken by the University, seed 5. Harvest and post-harvest handling of seeds, methods of harvesting, threshing, drying, cleaning, and storage. 6. Seed quality testing/Seed certification. 7. Seed distribution and marketing. 8. Hybrid seed production.	2 days
J.	Physics and Agricultural Economics 1. Weather based crop planning, Disaster management. 2. Remote sensing and GIS. 3. Co-operative and marketing 4. Agriculture Insurance 5. IPR, WTO and its implications	1 days
K.	Agricultural Extension 1. Organization and functioning of the Directorate of Extension Education. 2. Organization of State Department of Agriculture. 3. Central and State sponsored schemes. 4. Innovations in Technology Dissemination. 5. Extension Reforms. 6. Organizing extension activities/programmes. 7. Different approaches of Extension Education. 8. Agro-ecosystem diagnostic analysis 9. IT based transfer of technologies. 10. State Agricultural Plan and its implementation.	1 days

Sr.	Discipline	Duration
P-2	<ul style="list-style-type: none"> • Training on agro-ecosystem diagnostic analysis;10 days Department of Agronomy + Meteorology (2) Department of Entomology (2) Department of Plant Pathology (2) Department of Soil Science & Agricultural Chemistry(2) Department Plant Breeding & Genetics(2) • Conduct of PRA exercise on campus training;5 days Department of Extension Education (5) • Visit to local Institutions of State/ICAR;5 days Sardar Smruti Kendra, NAU, Navsari Agricultural Information Technology Centre, NAU, Navsari Science Centre, Dharampur etc. 	20 days
P-3	<ul style="list-style-type: none"> • Visit to Zonal Research Stations;20 days Main Sugarcane Research Station, NAU, Navsari Main Sugarcane Research Station, NAU, Navsari Mega Seed, Pulses and Castor Research Unit, NAU, Navsari Soil and Water Management Research Unit, NAU, Navsari Wheat Research Station, NAU, Navsari Regional Rice Research Station, NAU, Vyara Fruit Research Station, NAU, Gandevi Agricultural Experimental Station, NAU, Paria Niger Research Station, NAU, Vanarasi Hill Millet Research Station, NAU, Waghai Main Cotton Research Station, NAU, Surat Main Sorghum Research Station, NAU, Surat Regional Soil Salinity Research Institute, ICAR, Bharuch Central Horticultural Experimental Station, ICAR, Godhra Director of Groundnut Research Station, ICAR, Junagadh Director of Meditational & Aerometric Plant, ICAR, Boriyavi etc. • Visit to KVKs.....5 days Krushi Vigyan Kendra, NAU, Navsari Krushi Vigyan Kendra, NAU, Surat Krushi Vigyan Kendra, NAU, Vyara • Visit to NGOs.....5 days BIAF, Lachhakdi, Valsad Aga Khan Rural Support Programme (India), Netrang Krushi Vigyan Kendra, Ambheti • Stay around Zonal Research Station/KVK/NGO.....30 days The group of Departments of College will be worked in rotation and coordinate the State Dept. of Agriculture, Horticulture and KVK to select the villages for student stay. 	60 days

P-4	<ul style="list-style-type: none"> • Placement in Agro-Industries; <ul style="list-style-type: none"> Inde's Great Food Co.P. Ltd, Valsad Best Roses Biotech P. Ltd, Navsari Harsh Flora, Navsari Bharat Agritech, Navsari Farm Fresh, Surat Mehul Flora, Navsari Universal Floritech, Surat Janvi Flora, Surat Payal Flora, Navsari GNFC, Bharuch KRIBHCO, Surat • Placement in rural enterprises; <ul style="list-style-type: none"> Agricultural Tools Research Centre, Bardoli • Placement in processing centers; <ul style="list-style-type: none"> BIAF, Lachhakdi, Valsad Cashew Processing Unit, Kaprada, Valsad Vadilal Industry, Dharampur Balaji Wafers Processing Unit, Dungri, Valsad Casilla Foods, Killa Pardi, Valsad Zandu Farm, Vapi Reliance Farm, Dahunu Deep Frozen, Gandeva, Navsari Amalsad Vibhag Vividh Karykari Sahakari Mandali Ltd, Amalsad Gadat Vibhag Vividh Karykari Sahakari Mandali Ltd, Gadat etc. <p>The Departments of college will be worked in rotation and coordinate the agencies on their approval for placement.</p>	30 days
P-5	<p>Group discussion report presentation and viva-voce :</p> <ul style="list-style-type: none"> • Attendance and diligence:(5 marks) Marks are given by the RAWE Teacher to the student on their presence and attentiveness in classes conducted on the campus and placements in rural areas/institutions. • Work diary:(5 marks) Evaluation of work diary shall be done by the RAWE Teacher on every day description of activities carried out by the student during the classes/ placements. • Practical record/Project report:(20 marks) For each subject, the student will maintain a practical record. The record will have detailed description for all the topics specified under each subject. The description will be on statement of tasks carried out, sequential steps/ procedure followed in completion of the task, approaches used to accomplish the task, impact of the task on the intended audience, feedback obtained and lessons learnt. 	15 days

	<p>For the courses of placements in other institutions/ industries are made where each student will write a project report. The project report will have description on background of the institution, objectives, vision and mission, organizational structure, staff position, major services / goods produced/ delivered area of operation / coverage tasks carried out by the students, output achieved, experience gained and overall impact on the student.</p> <ul style="list-style-type: none"> · Performance during placement:(20 marks) The student's performance during the placements in villages will be assessed by the designated RAWE teacher who frequently visit/villages. In case of placements in industries / institutions, the designated person in the host institute / industry will rate the performance of each student and communicate it to the designated RAWE teacher. The RAWE teacher in consultation with the concerned person in the host institute will assign the marks for the performance of students. · Group discussion/ Presentation of project report:..... (20 marks) After completion of student's placements in rural areas and institutions/industries, the HoD or Nominated Faculty and RAWE teachers of each course will have group discussion session to assess each student's level of participation and interaction abilities based on experience gained during RAWE. Each student will give a brief presentation on the work that has been carried out, experience gained and points for future consideration. · Written and viva-voce Examination:..... (30 marks) A viva voce examination will be conducted for each student on the assign / relevant topics of each discipline to know the overall impact of RAWE on the student, on the farming community and on the institutions. 	
Approximate days		135 to 140

3.0 ACADEMIC REGULATIONS FOR RAWE STUDENTS

On an around 130 students would be available every year for the bachelor programme of agriculture faculty. The student must maintain merit and good conduct as certified by the Head of College / University. Student should not remain absent during the programme without prior permission of the Competent Authority. The students require 90 per cent attendance under the Programme and failing to that the student has to repeat within the semester by his / her own cost. Student should not participate in any agitation /strike and should not take up any job even on part time basis or any other financial assistance for the same activities during the period.

4.0 STIPEND FOR RAWE STUDENTS

There is a provision of stipend for the Student READY Programme. Students enrolled under RAWE Programme and Experiential Learning Programme in 7th and 8th semesters respectively. After successful completion of all the requirements of Programme within the semesters by the student is eligible Rs. 18000/- as stipend.

5.0 EVALUATION PATTERN

It will be a common evaluation pattern for all the subjects/course and for all the degree programmes as the type of work/educational activities they carry out during the rural placements or industries/institutions placements will be the same with different subject matter area for 100 marks and grading will be done on 10 point scale.

6.0 FEEDBACK OBTAINED ON THE CONDUCT OF RAWE (A report)

1.	From the student	Students are benefited due to exposure of real field situation in the process of planning, production and marketing of produce. They are socially/locality attached with the farming community. Identification of local problems and solving the problem at the first instance or to act as vehicle to bring those problems to consulting experts either from stations or headquarters.
2.	From the farmers	Students are very much friendly and cooperative. Problems generally faced by host farmers were solved by the technical support of students. Through the students under this programme contact with them university has been established.
3.	From the development departments	Programme is effective for creating quality human resources needed for future development of Agriculture in the state. Student acts as a linkman between the farmers and departments. Plans programme and schemes of Government meant for the farmers are reinvigorated in the minds of farmers.
4.	From the host institutions (Placement institutions/ industries)	Linkages established between the farming community and scientists of the host institute. The name and recognition of the institute is upgraded. Facilitate in transfer of technology through motivation by students.
5.	From the faculty	Relationship of farmers" scientist accelerated/geared up through interaction. Becomes easier for faculty to teach students on field- related subjects. Acquired few researchable issues. Gaining first hand information about the level of technology adoption and need for subsequent refinement.
6.	NGO s and others	Facilitate to take up certain programmes of NGO and others Helps in technology refinement through students. Wide spread publicity and popularization of firm"s products.
7.	Students	Earned comprehensive practical experience in real field situation and thereby build up of confidence. Development of social relationship and emotional attachment to the profession. Leadership development in planning programme field problems. Help shouldering the responsibility as extension worker in future.
8.	Farmers	Acquainted with various schemes, plan and programme of govt. and non govt. agencies. Gaining knowledge on use and abuse of fertilizer, chemical and pesticides etc. Socio economic up gradation through adoption of modern system of cultivation. Achieved knowledge on protection of biodiversity through farm planning.

9.	Developmental departments	Bring the farmer closer Facilitate to take up the Govt. programme Gathered confirmation of problems generally faced by farmers Becomes feasible for evaluating the extension programme departmentally.
10.	SHGs/local institution	Motivated the youths to take scientific agriculture as profession. Helped improvement of community organizing literacy programme, extracurricular activities etc.

7.0 Generalisation & Conclusion of RAWE Programme:

The expectation of this phase is to develop the interpretation and generalizing power, practicing in report writing, ability to develop group discussion and visioning for own agribusiness.

- Discussion of past experience of RAWE Programme
- Thinking about the best outcome obtain through RAWE Programme
- Interpretation of inputs which collected during present programme
- Develop individual understanding

8.0 Application of strategy of RAWE Programme:

- Generalization of each stays of RAWE Programme
- Study the situation in which RAWE programme can give best results
- Participation from all corners
- Decision making for best alternatives
- Strategy development

"Bachelor of Agriculture is the brand ambassador of Agriculture"

The information about the year wise size of students" enrolment under RAWE programme is given below. The year wise enrolled of students and have completed successfully under RAWE programme is as follows;

Sr.	Batch	Year	Enrolled Students	Pass out Students
1.	First	2003-2004	53	53
2.	Second	2004-2005	71	124
3.	Third	2005-2006	54	178
4.	Fourth	2006-2007	39	217
5.	Fifth	2007-2008	25	242
6.	Sixth	2008-2009	52	294
7.	Seventh	2009-2010	79	373
8.	Eight	2010-2011	73	446
9.	Nine	2011-2012	52	498
10.	Tenth	2012-2013	59	557
11.	Eleventh	2013-2014	83	640
12.	Twelfth	2014-2015	94	734
13.	Thirteen	2015-2016	118	852
14.	Fourteen	2016-2017	132	984
15.	Fifteen	2017-2018	102	1086
16.	Sixteen	2018-2019	128	On

Teaching at Postgraduate level

Courses offered at Master level:

The recognised faculty members are competently teaching following courses to the students registered for master's degree in the discipline of extension education.

Sr.	Course Code	Title of the Course	Credits
1	Ag.Ext.501	Development Perspectives of Extension Education	1+1
2	Ag.Ext.502	Development Comm. and Information Management	2+1
3	Ag.Ext.503	Diffusion and Adoption of Agricultural Innovations	2+1
4	Ag.Ext.504	Research Methods in Behavioural Sciences	2+1
5	Ag.Ext.505	e-Extension	2+1
6	Ag.Ext.506	Programme and Strategies of Animal Husbandry Extension	1+1
7	Ag.Ext.507	Management in Extension	2+1
8	Ag.Ext.508	Visual Communication	2+1
9	Ag.Ext.509	Participatory Methods for Technology Development & Transfer	1+1
10	Ag.Ext.510	Gender Sensitization for Development	1+1
11	Ag.Ext.511	Perspectives of Distance Education	2+0
12	Ag.Ext.512	Market-Led-Extension	2+0
13	Ag.Ext.513	Entrepreneurship Development	1+1
14	Ag.Ext.591	Master's Seminar	1+0
15	Ag.Ext.592	Special Problem	2+0
16	Ag.Ext.599	Master's Research	20

Courses offered at Doctorate level:

The recognised faculty members offering following courses to the students registered for doctoral degree through comprehensive teaching techniques.

Sr.	Course Code	Title of the Course	Credits
1	Ag.Ext.601	Advances in Agricultural Extension	2+1
2	Ag.Ext.602	Advanced Design & Techniques in Social Science Research	2+1
3	Ag.Ext.603	Advances in Training Technology	2+1
4	Ag.Ext.604	Organizational Development	2+1
5	Ag.Ext.605	Advanced Instructional Technology	2+1
6	Ag.Ext.606	Theory Construction in Social Sciences	2+0
7	Ag.Ext.607	Advanced Management Techniques	2+1
8	Ag.Ext.608	Media Management	2+1
9	Ag.Ext.609	Transfer of Technology in Agriculture	2+1
10	Ag.Ext.610	Advance Rural Sociology	2+0
11	Ag.Ext.611	Advance Educational Psychology	2+0
12	Ag.Ext.612	Administration in Extension Education	2+0
13	Ag.Ext.691	Doctoral Seminar-I & II	1+0
15	Ag.Ext.699	Doctoral Research	45

(ii) EXTENSION RESEARCH

Extension research is mainly being conducted in two ways; first, through postgraduate students and second departmentally.

Research through postgraduate students

As a part and partial fulfilment of the degree programme the students registered for master and doctoral degree programmes are conducting thesis research work as decided by the major advisor and members of student advisory committee. At present, the faculty members are guiding 13 students for master degree and 6 students for doctoral degree. Some of them are working on the following research projects;

Sr. Title of doctorate degree research projects on hand

1. Assessment of paying behaviour of cultivators for privatized extension services in South Gujarat
2. Mitigating Strategies Adopted by Progressive farmers for Climate change in South Gujarat.
3. Socio-economic Impact of Co-operative Societies in South Gujarat.
4. Aspiration of educated youths towards agricultural enterprise.
5. Consequences of Climate Change on Agriculture and Animal Husbandry Enterprises and owners of South Gujarat
6. Conceptualization of Agricultural Innovation System among the Stakeholders in South Gujarat

Sr. Title of master degree research projects on hand

1. Participation pattern of rural women in household production system in Navsari District. House approved.
2. Management Efficiency of Milk Producers in Valsad district of South Gujarat. House approved.
3. Knowledge and Perception of farmers regarding Pradhan Mnatri Fasal Bima Yojana.
4. Management Efficiency of Horticultural Nursery Growers of Navsari and Valsad districts
5. Role perception and performance of Sarpanch and deputy Sarpanch of Gram Panchayat in Panchayati Raj System in Navsari district of South Gujarat.
6. Knowledge and adoption of Dairy Management Practices of Buffalo Owners of Surat District of South Gujarat. House approved.
7. In-built professional ability of Girl students of Navsari Agricultural University.
8. Decision making ability of farm women in Navsari District of South Gujarat.
9. Knowledge about Disasters and its mitigation among students of NAU
10. Status of Women Sarpanch in Gram Panchayats of Navsari District of South Gujarat. House approved.
11. Marketing Behaviour of Mango Growers of Valsad and Navsari District.
12. Using pattern of ICT by farmers of South Gujarat.
13. Management Efficiency of Horticultural Nursery Growers of Navsari and Valsad districts

The year wise pass out students is as follows.

Sr.	Year	Number of Postgraduate Students	
		M. Sc. (Agri.)	Ph. D.
1.	1965-2003	59	12
2.	2003-2004	01	01
3.	2004-2005	02	--
4.	2005-2006	01	01
5.	2006-2007	01	--
6.	2008-2009	03	--
7.	2009-2010	01	--
8.	2010-2011	02	01
9.	2011-2012	05	--
10.	2012-2013	02	01
11.	2013-2014	00	01
12.	2014-2015	06	01
13.	2015-2016	09	02
14.	2016-2017	08	02
15.	2017-2018	06	02

Since inception of the department, following students had obtained their master / doctoral degrees is as follows.

Sr.	Title of Thesis	Year	Student / Guide
1.	Level of adoption of some improved practices of Masuri paddy cultivation	1971 M. Sc.	Patel K. F. Dr. D. N. Pandya
2.	Allotment of Time to various Job Functions of a Gramsevak	1971 M. Sc.	Patel T. R. Dr. D. N. Pandya
3.	Impact of Institutional Farmers Training Programme	1972 M. Sc.	Patel R. B. Dr. D. N. Pandya
4.	The personal characteristics and Attitude of the Officers working on Taluka Seed Multiplication Farms of the Gujarat State towards their job.	1972 M. Sc.	Trivedi J. C. Dr. D. N. Pandya
5.	Impact of Mehsana district Cooperative Milk Producers Union Ltd., Dudhsagar Dairy, Mehsana on Dairy Farmers of Mehsana Taluka	1972 M. Sc.	Patel J. M. Dr. D. N. Pandya
6.	Value orientation of Local Leaders and their Role perception	1974 M. Sc.	Suryavanshi V.D. Dr. D. N. Pandya
7.	Involvement of Local Leaders in Extension programmes	1974 M. Sc.	Mahajan R. K. Dr. D. N. Pandya
8.	Value orientation and Job performance of Under-graduate Agriculture College students	1975 M. Sc.	Solanki G. K. D. N. Pandya
9.	A study of personality characteristics as related to Job performance of Agricultural Extension Officers in Gujarat	1977 Ph. D.	Bhimajiani A. M. Dr. D. N. Pandya
10.	Usefulness of Cotton Research Station, Surat as perceived by Cotton Growers	1978 M. Sc.	Patel P. P. Dr. D. N. Pandya
11.	Usefulness of Integrated Dry Land Agriculture Development Project, Amreli	1980 M. Sc.	Pansuria J. B. Dr. D. N. Pandya
12.	Utilization pattern and Impact of short term Agriculture Credit Financed by Cooperative Societies	1980 M. Sc.	Munshi M. A. Dr. D. N. Pandya
13.	Farmers problems in Adoption of Improved Crop Technology of Groundnut	1981 M. Sc.	Thumar D. N. Dr. D. N. Pandya
14.	Communication pattern of Groundnut growers	1981 M. Sc.	Rajyaguru H.N. Dr. D. N. Pandya

Sr.	Title of Thesis	Year	Student / Guide
15.	Eco-extension aspects of Groundnut marketing system	1981 M. Sc.	Patolia D. R. Dr. D. N. Pandya
16.	Groundnut growers Aspiration and Investment pattern	1981 M. Sc.	Patel A. J. Dr. D. N. Pandya
17.	Adoption of cultivation practices on Fruit orchards	1981 M. Sc.	Tarpara N. P. Dr. D. N. Pandya
18.	Some aspects of Adoption of Cumin crop cultivation	1982 M. Sc.	Desai C. P. Dr. D. N. Pandya
19.	Role played by Co-operative Sugar Factories in Sugarcane Development	1984 M. Sc.	Vekaria R. S. Dr. D. N. Pandya
20.	A study of the constraints interacting the Transfer to Rice Technology in Nepal	1984 M. Sc.	Chand D. B. Dr. S. K. Waghmare
21.	Image and Impact of Agricultural Research Station, Waghai on Ragi (Nagli) growing Tribal farmers of Dangs district in Gujarat State	1985 M. Sc.	Patel V. T. Dr. S. K. Waghmare
22.	Image and Impact of Vasudhara Dairy on milk Producers of Dangs district in Gujarat State	1985 M. Sc.	Patel H. B. Dr. S. K. Waghmare
23.	A study of the problems experienced by the Gramsevak and their Image among contact farmers of tribal area in Gujarat State	1985 M. Sc.	Patel R. M. Dr. S. K. Waghmare
24.	An investigation on adoption of Hybrid Jowar cultivation by the Tribal farmers of Dangs district in Gujarat State	1985 M. Sc.	Vejpara V. P. Dr. S. K. Waghmare
25.	Input Use Behaviour of Banana growers of Choryasi Taluka of Gujarat State	1987 M. Sc.	Prajapati V. V. Dr. S.K. Waghmare
26.	Role of communication in the adoption behaviour of Nagli growers in Dharampur Taluka of Bulsar district in Gujarat State	1987 M. Sc.	Naik R. M. Dr. S. K. Waghmare
27.	A comparative study of Water Resource Utilization Management among tribals and non-tribals of Surat district in Gujarat State	1988 M. Sc.	Patel M. C. Dr. S. K. Waghmare
28.	Impact of Ayacut Development Scheme	1976 M. Sc.	Adhyaru P. H. Dr. D. N. Pandya
29.	A study of Purchase Behaviour of Pump Set Owners of Kheda district, Gujarat	1977 Ph. D.	Patel S. M. Dr. D. N. Pandya
30.	Attitude of tribal beneficiaries towards Voluntary Organization in Valsad district of Gujarat state	1984 M. Sc.	Patel M. R. Dr. S. K. Waghmare
31.	Multidimensional study on the Role and participation of tribal women in Agriculture in the Dangs district of Gujarat State	1988 M. Sc.	Chaudhari N. V. Dr. S. K. Waghmare
32.	Multidimensional study on adoption of Niger crop amongst tribal's of Dangs district in Gujarat State	1988 M. Sc.	Thakor R. F. Dr. S. K. Waghmare
33.	Multidimensional Evaluation study of Krishi Vigyan Kendra on tribal development in the Dangs district of Gujarat State	1988 M. Sc.	Patel G. S. Dr. S. K. Waghmare
34.	Utilization of different extension teaching methods on adoption of farm innovation in Sankheda taluka of Gujarat State	1990 M. Sc.	Patel R. M. Dr. V. D. Joshi
35.	An investigation on the Effectiveness, Reading Habit and Utility of farm magazine 'Krushi Jivan' among the readers of Valsad district of Gujarat State	1991 M. Sc.	Bhatt J. N. Dr. V. D. Joshi
36.	Image and Impact of Sardar Smruti Kendra, Navsari	1991 M. Sc.	Bhatt J. P. Dr. R. B. Patel

Sr.	Title of Thesis	Year	Student / Guide
37.	Impact of Vasudhara Dairy on milk producers of Valsad district in relation to improved animal husbandry practices	1991 M. Sc.	Lad M. D. Dr. V. D. Joshi
38.	Impact of Dairy Co-operative (Sabar Dairy) in Sabarkantha district of Gujarat State	1991 M. Sc.	Vyas H. V. Prof. H. C. Naik
39.	Image and Impact of Lab-to-land programme in South Gujarat	1990 M. Sc.	Patel B. S. Dr. R. B. Patel
40.	Role expectation and Role performance of rural women in farm management :A study in Valsad district of Gujarat State	1992 Ph. D.	Parekh P. M. Dr. D. N. Pandya
41.	The constraints in transfer of G. Cotn. Hy-6 cotton technology in Dabhoi taluka of Baroda district of Gujarat State	1991 M. Sc.	Patel J. K. Dr. R. B. Patel
42.	Role perception and Role performance of formal leaders of Navsari taluka	1991 M. Sc.	Bhagiya D. T. Prof. H. C. Naik
43.	Extent of Irrigation Utilization and Technological change in Kakrapar command area in South Gujarat	1991 M. Sc.	Timbadia C. K. Dr. R. S. Vekaria
44.	A study on Communication Gap between Village Extension Worker and Contact farmers under T & V System	1991 M. Sc.	Kotadia J. B. Dr. V. D. Joshi
45.	A study of Readership Pattern, Readability and Effectiveness of farm magazine 'Krushi-go-Vidya' among the readers.	1993 M. Sc.	Joshi K. M. Dr. P. M. Parekh
46.	Problems of Mango growers of Valsad district of South Gujarat	1993 M. Sc.	Patel Sunil. R. Dr. R. B. Patel
47.	An analysis the factors responsible for Rice Production in tribal and non-tribal areas of Surat district of Gujarat State	1994 M. Sc.	Patel Suryakant R. Dr. R. S. Vekariya
48.	A study of Extent of Adoption of Sugarcane Production Technology by the Sugarcane growers of Valsad district of Gujarat State	1994 M. Sc.	Patel G. L. Dr. P. M. Parekh
49.	To study the Input Use Behaviour of Paddy growers in command area of South Gujarat	1994 M. Sc.	Patel D. K. Dr. R. S. Vekariya
50.	Training needs of Cross-bred Cow Owners regarding Improved Dairy Husbandry practices	1994 M. Sc.	Patel R. R. Dr. R. S. Vekaria
51.	A study on Technological Gaps in Knowledge and Adoption of Improved Mango Production Technology in Valsad district of Gujarat State.	1994 M. Sc.	Patel U. M. Dr. P. M. Parekh
52.	Role of Valsad Dangs Gramin Bank in Agricultural Development in Valsad district of Gujarat State	1995 M. Sc.	Naik P. D. Dr. R. S. Vakariya
53.	Role of the tribal and non-tribal farm women in agriculture in Sabarkantha district of Gujarat State	1989 M. Sc.	Patel M. S. Dr. D.N. Pandya
54.	Problems of young tribal farmers in Adoption of latest agricultural technology of high yielding varieties of Maize	1989 M. Sc.	Patel R. R. Dr. D.N. Pandya
55.	Impact of Watershed Management Technology in agriculture development in Panchamahals district of Gujarat State	1995 M. Sc.	Patel J. B. Dr. R.S. Vekaria
56.	Entrepreneurial Behaviour of the Inland Fishermen of Surat and Valsad district of Gujarat State	1995 M. Sc.	Patel B. M. Prof. R. D. Pandya

Sr.	Title of Thesis	Year	Student / Guide
57.	A study on water resource utilization management of sugarcane growers of South Gujarat	1997 M. Sc.	Thakker B. N. Dr. V. D. Joshi
58.	Content analysis of 'Gram Jagat' programme telecast by Doordarshan	1997 M. Sc.	Jha D. J. Dr. R. B. Patel
59.	Image and Impact of Sugar Co-operatives on sugarcane growers in South Gujarat	1997 M. Sc.	Kavad S. D. Dr. R. B. Patel
60.	A study on Knowledge gap at various levels of Technology Transfer and its effect on Adoption Behaviour of Paddy growing farmers in two Agro-climate-Zones of South Gujarat	1997 Ph. D.	Kher S. K. Dr. R. B. Patel
61.	A study on Drip Irrigation Management Techniques in South Gujarat	1997 M. Sc.	Patel S. R. Dr. R. B. Patel
62.	A study on Extent of Mechanization in Agriculture in Paddy and Sugarcane crops in Surat and Valsad districts of South Gujarat	1997 M. Sc.	Bariya R. K. Dr. V. D. Joshi
63.	To study the Knowledge and Adoption of Recommended Cultivation Practices of Mango and Tomato among the farmers of tribal and non tribal areas of Valsad district of South Gujarat	1998 M. Sc.	Vasava N. M. Dr. R. S. Vekaria
64.	A study on the Privatization of Extension Services in South Gujarat	1998 Ph. D.	Pandya R. D. Dr. R. B. Patel
65.	Image and Impact of Institutional Farmer's Training Programme organized by Farmer's Training Centre, Navsari	1998 M. Sc.	Parmar H. R. Dr. R. B. Patel
66.	A study on relative effectiveness of communication media on knowledge gain and change in symbolic adoption of plant protection measures in paddy	1999 Ph. D.	Vasoya B. P. Dr. R. B. Patel
67.	A study on adoption of Watershed Management Technology and its Consequences in watershed area of South Gujarat	1999 Ph. D.	Patel G. R. Dr. R. B. Patel
68.	A study on Techno-Socio-Economic Consequences of Drip Irrigation System among farmers of Gujarat State	2001 Ph. D.	Timbadia C. K. Dr. R. B. Patel
69.	Study on Knowledge and Adoption of Vegetables (Tomato and Brinjal) Production Technology among the vegetable growers of Navsari district	2001 M. Sc.	Patel J. N. Dr. R. B. Patel
70.	Perception and Expectations about Extension system for 21 st century	2001 Ph. D.	Sawant B. N. Dr. R. B. Patel
71.	A comparative study on Mixed Farming among Marginal, Small and Medium tribal farmers of South Gujarat	2001 Ph. D.	Thakker B. N. Dr. S. K. Waghmare
72.	A study on the Role of Farm Science Centre as a quantum catalyst in the Tribal Development in the Dangs district of Gujarat State	2001 Ph. D.	Bariya R. K. Dr. S. K. Waghmare
73.	Feasibility of Private Agricultural Research in South Gujarat	2004 M. Sc.	A. B. Pathak Dr. R. D. Pandya
74.	Crisis Management by farmers in Drought areas of Gujarat State – A critical analysis	2004 Ph. D.	Choudhary M. Dr. R. B. Patel
75.	Awareness and Adoption level of Value Added Techniques of Mango and Banana growers of South Gujarat	2005 M. Sc.	Mewara R. C. Dr. R. D. Pandya

Sr.	Title of Thesis	Year	Student / Guide
76.	Professionalism in management of Co-operative sectors of South Gujarat	2006 Ph. D.	Naik R. M. Dr. R. B. Patel
77.	Impact of Joint Forest Management Programme in the Rajpipla and Valsad forest divisions of South Gujarat	2005 Ph. D.	Jadav J. K. Dr. R. D. Pandya
78.	Study on awareness and experience of tribal farmers about Safed Musli (<i>Chlorophytum Borivilliasnum</i> L.) cultivation in Dang district of Gujarat State	2006 M.Sc.	Chauhan G. G. Dr. V. D. Joshi
79.	A critical analysis of Motivated factors in Adoption of agricultural technology in South Gujarat	2007 M. Sc.	Kachhiapatel V. A. Dr. R. D. Pandya
80.	A study on Inter-gender Involvement in Paddy and Sugarcane crops cultivation in Navsari district of Gujarat State	2009 M. Sc.	Pawar P. B. Dr. R. D. Pandya
81.	A study on Agro Service Providers and Beneficiaries of Navsari district of Gujarat State	2009 M. Sc.	Salunkhe S. R. Dr. R. D. Pandya
82.	Comparative study on Bt and non Bt Cotton growers of Bharuch district of Gujarat State	2009 M. Sc.	Dalvi S. P. Dr. R. B. Patel
83.	A Study on Expert System Working at KVK's in Gujarat State	2010 M. Sc.	Kadam M. S. Dr. R. D. Pandya
84.	A critical analysis of Socio-Economic Status of Organic Farming Followers of South Gujarat	2010 Ph. D.	Pandya C. D. Dr. R. D. Pandya
85.	Attitude of Post-graduate Students towards Agricultural Teaching, Research and Extension of Navsari Agricultural University	2010 M.Sc.	Ade A. U. Dr. G. R. Patel
86.	Professionalism of Mango Growers, Crossbred Cow Owners and Inland Fishermen of South Gujarat	2011 M. Sc.	Dhage M. S. Dr. R. D. Pandya
87.	Impact of Participatory Irrigation Management Programme on Beneficiaries of South Gujarat	2011 M. Sc.	Rai S. K. Dr. R. D. Pandya
88.	Adoption of Dairy Farming practices and its Consequences in Tribal Areas of Surat District of Gujarat State	2011 M. Sc.	Pund P. B. Dr. G. R. Patel
89.	Image and Impact of Krishi Vigyan Kendra, Vyara and Ambheti of South Gujarat	2011 M. Sc.	Jadhav K. P. Dr. G. R. Patel
90.	Role perception and role performance of FIGs working under ATMA project at Tapi and Valsad district of South Gujarat	2011 M. Sc.	Hingoneker S. S. Dr. C. K. Timbadia
91.	Assessment of different farming system adopted by the farmers of Navsari district	2013 M. Sc.	Tala S. H. Prof. V. P. Vejapara
92.	Strategic analysis of farm school working under ATMA in South Gujarat	2013 M. Sc.	Gardhariya K. V. Dr. R. D. Pandya
93.	Cultivation status of hybrid rice in eastern hilly region of South Gujarat	2013 M. Sc.	Vsava H. M. Dr. C. K. Timbadia
94.	Attitude towards public private partnership of registered okra growers of eastern region of South Gujarat	2013 M. Sc.	Shinde S. S. Dr. R. D. Pandya
95.	Construction of scale for adoption of paddy production technology	2014 Ph. D	Salunkhe S. R. Dr. R. D. Pandya
96.	Consequences of scientific management of pregnant dams and calves for strengthening livelihood among livestock beneficiaries of RKVY project	2014 M. Sc.	Bhuva R. M. Dr. R. D. Pandya

Sr.	Title of Thesis	Year	Student / Guide
97.	Entrepreneurial behaviour of students of Navsari Agricultural University, Navsari	2014 M. Sc.	Donald Ghambi De Dr. R. D. Pandya
98.	Knowledge and attitude of farmers towards use of Kisan Call Centre of South Gujarat region	2014 M. Sc.	Parmar V. S. Dr. O. P. Sharma
99.	Impact of front line demonstration on paddy cultivators of Navsari District of South Gujarat	2014 M. Sc.	Dholariya P. C. Prof. V. P. Vejapara
100.	Impact of RKVY project on beneficiaries of inland aquaculture implemented by KVK, Navsari	2014 M. Sc.	S. Chaudhary Dr. C. K. Timbadia
101.	Role of SHGs for livelihood security of rural women of South Gujarat	2014 M. Sc.	Shiroya M. S. Dr. G. R. Patel
102.	Assessment of the influence of Sakhi Manadal members in their family decision making of Navsari district	2015 M. Sc.	Rajeshree R. Dr. C. K. Timbadia
103.	Agricultural diversification for livelihood security of rural people of South Gujarat	2015 Ph. D.	Rai S. K. Dr. G. R. Patel
104.	Consequential assessment of the farmers about adoption of recommended practices of major crops in South Gujarat	2015 Ph. D.	Darandale A. A. Dr. R. D. Pandya
105.	Perception and attitude of farmers towards low cost green house technology in Navsari district of South Gujarat	2015 M. Sc.	Chauhan C. D. Dr. M. R. Bhatt
106.	Attitude of pesticide users of Tapi district of South Gujarat	2015 M. Sc.	Dhodiya U. N. Dr. G. R. Patel
107.	Management efficiency of small scale horticultural nursery growers in Navsari and Valsad districts of South Gujarat	2015 M. Sc.	Patel A. G. Dr. H. U. Vyas
108.	Knowledge of vegetable growers about the side effects of pesticides in Tapi district of South Gujarat	2015 M. Sc.	Dhodia A. J. Dr. R. M. Naik
109.	Awareness and attitude of organic farming followers of South Gujarat	2015 M. Sc.	Patel C. D. Prof. V. P. Vejapara
110.	Role performance of Tribal Farm Women in Livelihood Management	2015 M. Sc.	Patel V. J. Dr. N. M. Chauhan
111.	Strategic analysis of Market-Led-Extension Activities of APMCs of South Gujarat	2015 Ph. D.	Kavad S. D. Dr. R. D. Pandya
112.	Attitude of farmers towards Krishi Vigyan Kendra Navsari of South Gujarat	2015 M. Sc.	Vohra F. N. Dr. C. K. Timbadia
113.	Perception and use Efficiency of Soil Health Card by the farmers of Navsari District.	2016 M. Sc.	Charel J. M. Prof. V. P. Vejpara
114.	Entrepreneurial Behaviour of Vegetable Growers in Navsari District	2016 M. Sc.	Malivad Y. G. Dr. M. R. Bhatt
115.	Operational Efficiency for the cultivation of Spider Lily growers in Navsari District	2016 M. Sc.	Dedun V. S. Dr. R. M. Naik
116.	Farmers' Perception about Climate change and their Adaptation in South Gujarat	2016 M. Sc.	Laxman M. H. Dr. M. R. Bhatt
117.	Entrepreneurial Ability of Cashew nut growers in tribal region of South Gujarat	2016 Ph. D.	Chauhan G. G. Dr. G. R. Patel

Sr.	Title of Thesis	Year	Student / Guide
118.	Information Seeking Behaviour About Animal Husbandry Enterprise Holders of Farmer"s Interest Groups (FIGs) of Navsari District	2016 M. Sc.	Munni Kumari Dr. C. K. Timbadia
119.	Image and Impact of Frontline Demonstration on Beneficiary"s Neighbouring Farmers of Tapi District	2016 M. Sc.	Gamit P. S. Dr. P. B. Khodifad
120.	Managerial Ability of Broiler Farm Owners of South Gujarat	2016 M. Sc.	Patel N. G. Dr. N. M. Chauhan
121.	Technological GAP in Adoption of Improved Paddy cultivation practices in Navsari and Surat Districts of South Gujarat	2016 M. Sc.	Tengli M. B. Dr. O. P. Sharma
122.	Knowledge and Attitude of Farmers Towards Banana Pseudostem based 'Navroji Novel' Organic Liquid Fertilizer in South Gujarat	2017 M. Sc.	Girawale V. B. Dr. R. M. Naik
123.	Strategic Convergence between the KVK and ATMA in Gujarat	2017 M. Sc.	Patel D. J. Dr. R. D. Pandya
124.	Knowledge of Farmers about Contract Farming in Subabul Cultivation in Tapi District	2017 M.Sc.	Patel S. S. Prof. V. P. Vejpara
125.	Spectrum of ICTs apparatus in South Gujarat institutions for exploring agricultural information	2017 Ph. D.	Bhuva R. M. Dr. G. R. Patel
126.	Awareness and adoption of mango growers about good agricultural practices in mango cultivation	2017 M. Sc.	Chaudhary M. V. Dr. P. B. Khodifad
127.	Strategic involvement of Public and private sectors in banana crop cultivation in South Gujarat	2017 M. Sc.	Chaudhari D. P. Dr. N. M. Chauhan
128.	Perception of Scientists of Navsari Agricultural University towards Organizational Climate	2017 M. Sc.	Pandya A. M. Dr. C. K. Timbadia
129.	Determinants of Farmers Towards Abandoning their Agriculture	2017 Ph. D.	Onima V. T. Dr. C. K. Timbadia
130.	Socio-Economic Consequences of Wadi project on Tribal Beneficiaries of South Gujarat	2018 Ph. D.	Khule R. P. Dr. G. R. Patel
131.	Entrepreneurial Behaviour of Young Cotton Growers of Surat District in South Gujarat	2018 M. Sc.	Zinzala R. K. Dr. O. P. Sharma
132.	SWOT Analysis of Agricultural Technology Management Agency by members of Farmers Interest Group in Navsari District of Gujarat State	2018 M. Sc.	Pandya D. H. Dr. P. B. Khodifad
133.	Knowledge and Adoption level of Root and Tuber Crops growers in Navsari District of South Gujarat	2018 M. Sc.	Deshmukh D. L. Dr. R. M. Naik
134.	Contract Farming in Maize Cultivation in Navsari District	2018 M. Sc.	Dalvi M. V. Dr. C. D. Pandya
135.	Role of Sakhi Mandal in Empowerment of Tribal Women in Navsari District	2018 M. Sc.	Baria N. Ben Dr. O. P. Sharma
136.	Socio-Economics Status of Inland Aqua-culturist of Navsari District of South Gujarat	2018 M. Sc.	Jadav T. D. Dr. C. D. Pandya
137.	Conceptualization of Gender Development Among the Students of NAU, Navsari	2018 M. Sc.	Nair N. B. Dr. R. D. Pandya
138.	Perception and Attitude of Farm women towards Animal Husbandry as Occupation	2018 M. Sc.	Zinzala G. P. Dr. M. R. Bhatt

Research conducted through faculty members:

On the available human resources with the department more than 40 departmental research projects on contemporary core issues of agriculture extension were conducted and results were presented in AGRESCO. Out of all, the results of following departmental research projects were highly appreciated by the house.

- ✓ Adoption of new recommendations made by NAU, Navsari by the tribal farmers of Navsari district of South Gujarat
- ✓ Impact of KVKs working under Navsari Agricultural University, Navsari
- ✓ Feasibility analysis of Broad based extension system in South Gujarat.
- ✓ A study on the opinion of the farmers on privatisation of extension services.
- ✓ Study of present academic atmosphere of N. M. College of Agriculture, Navsari.
- ✓ Scientific productivity of technical personnel of GAU, Navsari.
- ✓ To study the knowledge and adoption level of recommended technologies for paddy, sugarcane and Nagli crop growers of South Gujarat.
- ✓ Adoption of soil conservation and water harvesting techniques by the farmers of South Gujarat Agro Climatic Zones.
- ✓ Influence of woman's attitude towards dairy co-operative society.
- ✓ A study on extent of adoption of wadi programme and its consequences on socio-economic condition of tribal farmers
- ✓ Contract farming in maize cultivation in Navsari district
- ✓ Strategic Convergence between the KVK & ATMA in Gujarat
- ✓ Strategic involvement of public and private sectors in banana cultivation in Narmada and Bharuch districts of South Gujarat
- ✓ Awareness and adoption of mango growers about good agriculture practices in mango cultivation
- ✓ Contract farming in subabul cultivation in Tapi district
- ✓ Influence of banana pseudostem based „Nauroji Novel” organic liquid fertilizer on the farmers of South Gujarat
- ✓ Perception about organizational climate of NAU by the Scientists

After deciding the procedure for making the recommendation through AGRESCO Committee for social sciences one message recommended on the departmental research.

Message Recommended for Extension Functionaries:

“In enhancing the knowledge and adoption of technologies recommended by NAU for tribal farmers of South Gujarat, the educated, young, having membership in social organization with scientific orientation should be selected in extension activities.”

વિસ્તરણ કાર્યકરો માટે ભલામણ કરાએલ સંદેશ:

"નવસારી કૃષિ યુનિવર્સિટી દ્વારા દક્ષિણ ગુજરાતના આદિવાસી ખેડુતો માટે ભલામણ કરાએલ કૃષિની તાંત્રીકીઓના જ્ઞાન અને અપનાવવાની પ્રક્રિયાને વેગ આપવા શિક્ષિત, યુવાન, સામાજીક સંસ્થામાં સભ્યપદ અને વૈજ્ઞાનિક દ્રષ્ટિકોણ ધરાવતાં ખેડુતોને વિસ્તરણ પ્રવૃત્તિમાં પસંદ કરવા જોઈએ."

At present following three departmental projects are on hand of the faculties.

Sr.	Title of research project on hand
1.	Digitization of Extension Approach for the Agriculture in South Gujarat
2.	Professionalism in Management of Primary Dairy Co-operatives in South Gujarat
3.	Perception of Farmers towards activities of KRISHI MAHOTSAV in South Gujarat

Considering importance of feedback to develop certain policies and programme for rural development activities at university and state level the department has proposed and get approval from the State Government. At present following two project /scheme are on hand;

1. Extension Wing (B. H. 5240)
2. Strengthening of Extension Wing (B. H. 12145)
3. Rural Agricultural Work Programme (B. H. 12968)

Projects from other Agencies:

In view of capabilities of faculty available with the department certain private agencies have approached and requested to conduct research for their institution. The faculty of department had prepared the proposals, conducted the research with their objectives and results were submitted to respective agencies.

Sr.	Sponsored agency	Title of the project	Year	Project Cost (lack)
1.	Director, ATMA & State Nodal Officer, SAMETI-G, Gandhinagar	A strategic evaluation of ATMA districts of Middle and South Gujarat	2010	2.50
2.	Mahyco Monsanto Biotech (India) Ltd. Mumbai-400 093	A strategic study on dynamics of labour used by cotton growers in Gujarat	2011	12.24
3.	State Government	Strengthening of Extension Wing	2012	28.50
4.	Director, ATMA & State Nodal Officer, SAMETI-G, Gandhinagar	Strategic evaluation of ATMA districts of South Gujarat	2013	10.57

Consultancy services:

The following agencies of the Gujarat had requested to provide the expertise for their endowment.

Sr.	Agency	Mode of expertise
1.	Executive Director (Agril.), Sardar Sarovar Narmada Nigam Ltd. Gandhinagar	Conceptualise the methodology for Survey entitled; Socio-economic impact of irrigation in Sardar Sarovar Project Command Area
2.	Director, ATMA & State Nodal Officer, SAMETI-G, Gandhinagar	Prepared SREP for Navsari District
3.	Department of Agriculture and Co-operation, GoG, Gandhinagar	Prepared C-DAP for Valsad District
4.	Director, ATMA & State Nodal Officer, SAMETI-G, Gandhinagar	One faculty member act as facilitator in the Postgraduate Diploma in Agricultural Extension Management (MANAGE)

Project prepared and proposed:

The department always wish to work with the demand and on the line of development activities of State and Central government. The faculty of department have submitted following project proposals to concern authorities.

Sr.	Agency	Title of project proposal	Project Cost (lack)
1.	Department of Agriculture and Co-operation, GoG, Gandhinagar	Establishment of Kiosk system at the centres of Navsari Agricultural University, Navsari	64.25

Research published by the faculties in Scientific Journals (2011-2016):

Research Paper Published:

No.	Name of Authors	Year	Title of Research Paper	Name of Journal	Vol. No. & Page No.
1.	Pandya, R. D.	2004	A Scale to measure the Attitude towards Privatisation of Extension Services	<i>Guj. Jr. Ext. Ext.</i>	15, 66-70
2.	Mewara R. C. & R.D. Pandya	2004	Awareness and Adoption Gap of Value Added Techniques of Mango Growers	<i>Guj. Jr. Ext. Ext.</i>	15, 92-95
3.	Pandya, R. D. & R.B. Patel	2006	Insight of Researchers, Extension Workers and Farmers Regarding Privatisation of Extension Services	<i>Rural India</i>	69 (4): 67-69
4.	Pandya, R. D. & B.P. Patel	2006	Influence of Women's Attitude towards Milk Co-operative Society	<i>The Maha. Co-op. Quart.</i>	152 (5): 27-33.
5.	Jadav J. K. & R. D. Pandya	2006	Impact of Joint Forest Management Programme	<i>Guj. Jr. Ext. Ext.</i>	16-17, 106-108
6.	Pandya R. D.	2006	Privatisation of Extension Services: Opinion analysis	<i>Guj. Jr. Ext. Ext.</i>	16-17, 58-64.
7.	Mewara R. C. & R.D. Pandya	2007	Knowledge and Adoption level of Tomato Growers Regarding Value Added Techniques in Navsari	<i>Rural India</i>	70 (9): 169-171
8.	Pandya C.D. & R .D. Pandya	2011	Socio-Economic Change as Result of Watershed Development Programme	<i>Guj.J.Ext.Edu.</i>	22, 51-22
9.	Pandya R. D.	2012	A strategic study on Dynamics of Labour Used by Cotton Growers in Gujarat	<i>Ind. J.Ext.Edu.</i>	48(1-2), 27-32
10.	Rai, S. K., Pandya R. D. & S. R. Salunkhe	2012	Constraints and suggestions perceived by beneficiaries of Participatory Irrigation Management (PIM) programme	<i>Agri. Update</i>	7(3-4), 222-224
11.	Salunkhe, S. R. Pandya R. D. & S. K. Rai	2012	A study on personal, socio-economic, psychological and situational characteristics of agro-service providers and beneficiaries in Gujarat state	<i>Agri. Update</i>	7(3-4), 389-393
12.	M. Dhage, Pandya R. D., Rai S. K. & S. R.Salunkhe	2012	Perception about Professionalism of Mango Growers, Crossbred Cow Owners and Inland Fishermen	<i>Guj.J.Ext.Edu.</i>	23, 158-159
13.	Kavad S. D. & R. D. Pandya	2013	Market-Led-Extension activities of APMCs	<i>Guj.J.Ext.Edu.</i>	24, 134-138
14.	Warawdekar S. C., Pandya,R. D., Darandale A. A. & G. G. Chauhan	2015	Knowledge about eco-friendly cotton cultivation and their association with personal profile of cotton growers	<i>Eco.Env. & Cons.</i>	21(3), 115-119

No.	Name of Authors	Year	Title of Research Paper	Name of Journal	Vol. No. & Page No.
15.	Bhuva, R. M., Pandya R. D. & A. I. Patel	2015	Constraints Perceived by the Livestock Beneficiaries of RKVY Project in Adoption of Scientific Management of Pregnant Dams and Calves for Strengthening Livelihood	<i>Trends in Biosciences</i>	8(3), 706-708
16.	Rai, S. K., Patel, G. R. Pandya R. D. & S. R. Salunkhe	2015	Study on Training Needs of Farmers to Become Successful Diversifier	<i>Trends in Biosciences</i>	8(16), 4096-4098
17.	Rai, S. K., Patel G. R., Pandya R. D. & S. R. Salunkhe	2015	Constraints and Suggestions Perceived by Respondents in Agricultural Diversification	<i>Trends in Biosciences</i>	8(16), 4099-4102
18.	Kavad S. D., Pandya R. D., Chauhan G.G.& S. C. Warawdekar	2015	Factors Influencing in Marketing Behaviour of Farmers and their Suggestions for Market-Led-Extension	<i>Trends in Biosciences</i>	8(22), 6284-6288
19.	Danrandale A. A., Pandya, R. D.	2015	Location specific and research based extension strategies for	<i>Multilogic in Science</i>	13, 16-19
21.	Pawar, P. B. Shitre V. R. & R. D. Pandya	2015	Problem faced by the gender in carrying out the practices in paddy and sugarcane crops cultivation	<i>Agri. Update</i>	10(3), 226-230
22.	Kavad S. D. & R. D. Pandya	2015	Managerial ability of farmers, committee members and office bearers of APMCs of tribal and non tribal area of South Gujarat	<i>Guj.J.Ext.Edu.</i>	26(1), 101-105
23.	Darandale A.A., Pandya, R. D. Deshpande A. R. & A. V. Kashirsagar	2016	Factor associated with knowledge level of the farmers about package of practices	<i>Multilogic in Science</i>	15, 38-41
24.	Salunkhe S. R. and R. D. Pandya	2016	Influence of profile of Agro-Service Provider and Beneficiaries on the sales and purchasing behaviour	<i>Asian Jr. Ext. Edu</i>	34. 59-61
25.	Gardhariya K. V., Pandya R. D. & A. J. Dhodia	2016	Attitude of farm school beneficiaries working under ATMA of South Gujarat	<i>Advance in Life Aci.</i>	5(20-1), 8962
26.	Pandya R. D. and R. M. Bhuva	2016	Approaching vulnerability of climate change	<i>RVSKVV, ISEE</i>	340-45
27.	Salunkhe S. R. and R. D. Pandya	2017	Construction scale to measure adoption of beneficiary farmers	<i>Jr. Agril. Sci.</i>	4(1), 19-23
28.	Bhuva R. M. and R. D. Pandya	2017	Development of scale to measure attitude of the employers towards information and communication technology	<i>Multilogic in Science</i>	7(23), 252-70
29.	Khule R. P., Patel G. R. and	2018	Profile of the tribal beneficiaries about Wadi project	<i>Int. Jr. of Chemical Studies</i>	6(2), 268-270
30.	Desai N. C., Intwala C. G. and	2005	Effect of spacing, weed and phosphorus management on	<i>Crop Prot. Prod.</i>	1(2): 50-52

No.	Name of Authors	Year	Title of Research Paper	Name of Journal	Vol. No. & Page No.
31.	Desai N. C., Intwala C. G. and	2005	Selection Parameters in Indian beans (<i>Dolichos lablab</i> var.	<i>Crop Prot. Prod.</i>	1(2): 131-32
32.	Naik R.M., Pandya H.V. and C. G.	2009	Proposed extension strategies for better perception of	<i>Int. Jr. Comm. & Business</i>	2(2) : 110-111
33.	Chauhan G.G., Naik R.M., Pandya	2009	Effect of personal attributes of the farmers on their awareness	<i>Green farming</i>	2(14) : 1020-23
33.	Naik R. M., Patel R. B. and H. V. Pandya	2008	The factors responsible for professionalism in management of cooperative sectors.	<i>Cooperative Sugar</i>	39(7): 15-22
34.	Naik R.M., Pandya H.V. and G. G. Chauhan	2008	Sources of information utilized by tribal farmers at different stages of adoption in Nagli cultivation	<i>Guj. Jr.Ext. Edu.</i>	18-19: 43-44
35.	Naik R. M., Patel R. B., Pandya H. V. and C. G. Intwala	2010	Impact of professionalism on co-operative sectors	<i>Guj. Jr.Ext. Edu.</i>	20-21: 33-35
36.	R.M.Naik, G.G.Chauhan, H.V.Pandya and C.G.Intwala	2010	Relationship of personal characteristics of safed musli growers with awareness and knowledge about its cultivation	<i>Guj. Jr.Ext. Edu.</i>	20-21: 77-78
37.	Vashi J. M., Pandya H. V. & R. M. Naik	2010	Study on Physical and Chemical Methods of Weed Control in Onion Crop	<i>Int. Jr. of Pl. Protec.</i>	2(2): 245-247
38.	Vashi J. M., Pandya H. V. & R. M. Naik	2010	Study on Different Weed Flora in Physical and Chemical Methods of Weed Control in Onion	<i>Int. Jr. of Pl. Protec.</i>	3(1): 40-42
39.	Tandel D.H., Sabalpara A.N., Pandya H.V. &R.M.Naik	2010	Effect of leaf blight <i>Macrophomina phaseolina Tassi.</i> Goid on growth parameters and yield of green gram and its chemical control.	<i>Int. Jr. of Pl. Protec.</i>	3(2): 329-331
40.	R. M. Naik, G. G. Chauhan, M. R. Prahapati & C. S. Desai	2012	Reaction of Farm women about the self help Group in Navsari District of Gujarat	<i>Jr. of Krishi Vigyan</i>	1(1) : 61-64
41.	Naik R.M., Tandel B.M. & N. M. Chauhan	2012	Impact of group cohesiveness on professionalism in management of co-operative sectors	<i>Adv. Res. Jr.l of Social science</i>	3(2): 213-215
42.	Naik R.M., Tandel B. M. & N. M. Chauhan	2012	Empowerment of rural women through self-help groups	<i>Agriculture Update</i>	7(3&4): 342-345
43.	Naik R. M., Chauhan G. G., Prahapati M. R. & C. S. Desai	2012	Reaction of Farm women about the self help Group in Navsari District of Gujarat	<i>J. Krishi Vigyan</i>	1(1): 61-64
44.	Naik R.M., Tandel B.M. & N. M. Chauhan	2013	The factors accountable for professionalism in administration of sugar co-operative sector of south Gujarat.	<i>Int. Jr.l of Agril. Sci.</i>	9(1): 193-196

No.	Name of Authors	Year	Title of Research Paper	Name of Journal	Vol. No. & Page No.
45.	M. Choudhary, Shah N. I. & R. M. Naik	2013	Knowledge level of formers about improved mango cultivation	<i>Ind. Jr. of Soci. Res.</i>	54(3), 227-231
46.	M. Choudhary, Shah N. I., Naik R. M. & N.Kumar	2013	Extent of Adoption about Improved Mango cultivation	<i>The Andhra Jr.</i>	60(3), 694-697
47.	Naik R.M., Naik B.U. and B. M. Tandel	2014	The factors responsible for professionalism in management of agricultural cooperative sector of south Gujarat	<i>Agriculture Update</i>	9(2), 190-192
48.	Tandel B.M., Tandel Y.N., Naik R.M. and C.K.Timbadiya	2014	Wadi: A boon for sustainable livelihood	<i>Agriculture Update</i>	9(2), 204-206
49.	Dhodia A.J., Naik R.M. and B.M. Tandel	2014	Attitude of Farmers Towards Training Programme of Mega Seed Project	<i>Guj. J. Ext. Edu.</i>	25(1), 9-12
50.	Naik R.M. and B.M. Tandel	2014	Factors Responsible for Professionalism in Management of Dairy Co-operative Sector	<i>Guj. J. Ext. Edu.</i>	25(1), 55-57
51.	Naik R.M. and B.M. Tandel	2014	Farm Women Participation in Vermi-compost Production	<i>Guj. J. Ext. Edu.</i>	25(2), 178-180
52.	Naik R.M., Prajapati M.R. and Patel N. N.	2014	Involvement of farm women in decision making pattern for Dairy farming	<i>Unique Jr. of Medical & Dental Sci.</i>	2(4) 2347-79
53.	Prabhu Nayaka, Naik R. M. and B. M. Tandel	2015	Nauroji – Stone house fruit fly trap in management of mango fruit fly in Navsari district.	<i>Current biotica e Insect environment</i>	20(4), 133-135
54.	Prajapati M. R. and R. M. Naik	2015	Social and Health complications faced by working women in India: A review.	<i>Social Vision</i>	2(2), 67-70
55.	Naik R. M. and M. R. Prajapati	2015	Nutrition Education: Step to Fight Against Malnutrition in India.	<i>Social Vision</i>	2(3), 73-76.
56.	Naik R. M., Desai C.S. and B. M. Tandel	2015	Pattern of communication utilized by the Tribals	<i>Desh Vikas</i>	1(4),
57.	Naik R. M., Tandel B.M. and M. Choudhary	2015	Decision making pattern of farm women in Dairy Farming	<i>Trends in Biosciences</i>	8(11), 2754-2756
58.	M. Choudhary, Patel R.B., Patel H. F & R. M. Naik	2015	Adaptation patterns of farmers to drought situation	<i>Trends in Biosciences</i>	8(11), 2772-2778
59.	Patel C. D., Naik R. M. and V. P. Vejpara	2015	Awareness level of organic farming followers about organic farming of South Gujarat	<i>Guj. J. Ext. Edu.</i>	26(1), 95-96
60.	Naik R. M. and M. R. Prajapati	2015	Nutrition education: Step to fight against malnutrition in India	<i>Social Vision</i>	2(3), 67-70
61.	Naik R. M., Desai C.S. & B. M. Tandel	2015	Pattern of communication utilized by the Tribals	<i>Desh Vikas</i>	4(1): 21

No.	Name of Authors	Year	Title of Research Paper	Name of Journal	Vol. No. & Page No.
62.	Naik R. M., Tandel B.M. & M. Choudhary	2015	Decision making pattern of farm women in Dairy Farming	<i>Trends in Bio-sciences</i>	8(11), 2754-56
63.	M.Choudhary, Patel R.B., Patel H. & R. M. Naik	2015	Adaptation patterns of farmers to drought situation	<i>Trends in Bio-sciences</i>	8(11), 2772-78
50.	Patel C. D., Naik R. M. & V. P. Vejpara	2015	Awareness level of organic farming followers about organic farming of South Gujarat	<i>Guj. Jr. Ext. Edu.</i>	26(1): 35
51.	Naik RM, and M. R. Prajapati	2016	Nutrition Education: A boon to overcome malnutrition	<i>Int. J. Current Sci. Tech.</i>	4(3), 127-129
52.	M. Choudhary., Patel H.F., Naik R.M. and G.G. Chauhan	2016	Aspiration level of farmers living under drought situation	<i>Multilogic in Sci.</i>	6 (16), 63
53.	Choudhary M., Naik R. M., Chauhan G.G. & S. Sonavane	2016	Attitude of Farmers towards Developmental Activities of Agriculture Experimental Station NAU, Paria	<i>Adv. in Soci. Res.</i>	2 (1) 25-27,
54.	Chauhan G. G., Naik R. M.& G. R. Patel	2016	Entrepreneurial Ability of the Cashew nut Growers of South Gujarat	<i>Social Vision: Int. Jr. of SSHC & Mgt.</i>	3 (3)
55.	Chauhan G. G., Naik R. M., Patel G. R. & R. M.Bhuva	2016	Factors Responsible for Entrepreneurial Ability of the Cashew Nut Growers of South Gujarat	<i>Int. Jr. of Agril. Sci.</i>	8 (52) 2557-2559
56.	Chauhan G. G., Patel G. R., Naik R.M. & R. M. Bhuva	2016	The Entrepreneurial Ability of the Cashew nut Growers of South Gujarat	<i>Adv. in Life Sci.</i>	5 (18) 7313-17
57.	Girawale V. B. & R. M. Naik	2016	Adoption of Organic Fertilizer : A Way to Eco-friendly Agriculture	<i>Adv. in Life Sci.</i>	5(19), 8118-20
58.	Girawale V. B. & R. M. Naik	2016	Knowledge of Farmers About Recommended Package of Practices of Root and Tuber Crops	<i>Adv. in Life Sci.</i>	5(19), 8454-55
59.	Girawale V. B., Naik R. M. & R. M. Patil	2016	Production Constraints as Perceived by Root and Tuber Corps Growers in Navsari District of Gujarat State	<i>Adv. in Life Sci.</i>	5(19), 2278-49
60.	Chauhan G. G., Naik R. M. & G. R. Patel	2016	Factors associated with the success-failure of cashew nut growers and processing enterprise	<i>Guj. Jr. Ext. Edu.</i>	27(1): 82
61.	Girawale V. B. & R. M. Naik	2016	Determinants in knowledge about recommended package of practices of root and tuber crops	<i>Guj. Jr. Ext. Edu.</i>	27(1): 43
62.	Deshmukh D. & R. M. Naik	2017	Relationship between personal profile and empowerment of rural women through SHGs	<i>Guj. Jr. Ext. Edu.</i>	28(1): 18-19

No.	Name of Authors	Year	Title of Research Paper	Name of Journal	Vol. No. & Page No.
63.	Deshmukh D. & R. M. Naik	2017	Constraints faced by rural women for effective functioning of SHGs in Navsari district	<i>Guj. Jr. Ext. Edu.</i>	28(2): 265-66
64.	Girawale V. B. & R. M. Naik	2017	Knowledge of farmers about banana pseudo-stem based "NAUROJI NOVEL" organic liquid fertilizer in south Gujarat	<i>Guj. Jr. Ext. Edu.</i>	28(2): 275-76
65.	Dhodia A. J., Naik R. M. & K. V. Gardhariya	2017	Factors affecting on the knowledge of vegetable Growers About Side Effects of Pesticides in Tapi District of South Gujarat	<i>Trends in Biosciences</i>	10(46) 9462-9463
66.	Sharma O. P. & Dayanand	2005	Relationship between role of farm women in Agriculture and selected independent variables.	<i>Ind. Jr. of Soc. Res.</i>	46 (2): 161-164
67.	Sharma O. P. & B. M. Sharma	2005	Training needs of Assistant Agriculture Officers (AAO's)	<i>Raj. Jr. Ext. Edu.</i>	12-13: 50-55
68.	Sharma O. P.	2008	Role of farm women in Agriculture development	<i>Ind. Jr. of Soc. Res.</i>	49 (08): 23-27
69.	Sharma O. P. & R. Shukla	2010	A study on knowledge of farmers towards Sericulture.	<i>Int. Jr. of Comm. & Bus. Mgt.</i>	3 (2): 357-358
70.	Sharma O. P. & R. Shukla	2010	A study on source of information about Sericulture in Udaipur district of Rajasthan.	<i>Int. Jr. of Comm. & Bus. Mgt.</i>	3 (2): 353-354
71.	Shukla R. and O. P. Sharma	2011	A study on Attitude of Farmers towards Mulberry Sericulture in Udaipur district of Rajasthan.	<i>Agril. Sci. Digest</i>	31 (1): 66-69
72.	Sharma O. P. & N. Singh	2011	Extent of Knowledge of Farmers about improved vegetable cultivation practices.	<i>Jr. of Prog. Agri.</i>	1 (2): 92-93
73.	V. S. Parmar and O. P. Sharma	2014	Socio-Personal Characteristics of Farm Women in Dairy Occupation	<i>Guj. Jr. of Ext. Edu.</i>	25 (1): 47-48
74.	Parmar V. S., Sharma O. P., Bhuvra R. M. & A. I. Patel	2015	Relationship between personal and socio-economic characteristics of Farmers and their Attitude towards the Use of Kisan Call Centre	<i>Trends in Bio-sciences</i>	8 (3): 693-694
75.	Parmar V. S., Bhuvra R. M., Charel, J. M. & Sharma O. P.	2016	Knowledge of Farmers about Kisan Call Centre	<i>Int. Jr. of Agri. Sci.</i>	8 (22): 1419-1422
76.	Tengli M. B. & O. P. Sharma	2017	Technological Gap in Adoption of Improved Paddy Cultivation Practices.	<i>Int. Jr. of Current Micro. & Appli. Sci.</i>	6(11): 1224-1229
77.	Tengli M. B. & O. P. Sharma	2017	Strategies to overcome constraints in Adoption of Improved Paddy Cultivation Practices in Navsari and Surat Districts of South Gujarat.	<i>Int. Jr. of Current Micro. & Appli. Sci.</i>	6(11): 932-937

No.	Name of Authors	Year	Title of Research Paper	Name of Journal	Vol. No. & Page No.
78.	Tengli M. B. & O. P. Sharma	2017	Knowledge of Paddy Growers regarding improved paddy cultivation practices recommended by Navsari Agricultural University	Trends in Biosciences	10(35): 7432-7435
79.	Gohil G. R., Kalsariya, B. N., Khodifad P. B. & P. S. Gorfad,	2014	Constraint analysis of inter-rrlay cropping technology by groundnut growers	<i>AGRES – An Int. e - Jr.</i>	3(4) : 388-394
80.	Gohil G. R., Kalsariya, B. N., Khodifad P. B., & P. S.Gorfad,	2014	Adoption of Groundnut- Pigeon pea inter-relay cropping system in relation to technological gap	<i>AGRES – An Int. e - Jr.</i>	3(4) : 423-427
81.	Gohil G. R., Kalsariya, B. N., Khodifad P. B. & P. R. Kanani	2014	Rationale Behind adoption of inter-relay cropping system by groundnut growers	<i>AGRES – An Int. e - Jr.</i>	3(4) : 335-341
82.	Kalsariya, B. N., Gohil G. R. & P. B. Khodifad	2014	Constraints encountered by Groundnut growers in Groundnut-Pigeon pea inter relay cropping system	<i>Guj. Jr. Ext. Edu</i>	25(1): 24-26
83.	Kalsariya, B. N., Khodifad P. B. Gohil G. R., Kanani P. R., & M. K. Jadeja	2015	Discernment of coconut plantation growers about quality and damage caused by Eripphide mite on Coconut	<i>AGRES – An Int. e - Jr.</i>	4(4): 380-384
84.	Gamit P. S., Khodifad P. B. & V. S. Ddedun	2015	Knowledge of vegetable growers about Eco-friendly practices in Navsari District	<i>Int. Jr. Agril. Scs.</i>	8(13): 1213-1215
85.	Kalsariya, B. N. Khodifad, P. B. Gorfad, P. S. & J. G. Marakna	2016	Managerial efficiency of coconut plantation growers in coastal area of Saurashtra	<i>Int. Jr. Agril. Scs.</i>	8 (13): 1169-72
86.	Chaudhary M. V. and P. B. Khodifad	2017	Constraints faced by banana growers in management of banana cultivation	<i>Guj. J. Ext. Edu</i>	28(1): 43-45
87.	Chaudhary M. V. and P. B. Khodifad	2017	Constraints faced by the mango growers in adoption of good agriculture practices of mango crop	<i>Guj. J. Ext. Edu</i>	28(1): 55-57
88.	Pandya D. H, Khodifad P. B. and T. D. Jadav	2017	Constraints faced by BT cotton growers in Bharuch District of Gujarat State	<i>Guj. J. Ext. Edu</i>	28(2): 282-284

(iii) FIELD EXTENSION

Krushik Vistarana Club was established to develop the concept of leadership and to provide the knowledge of democratic approach among the students. This club is working on the principles of extension and governed by the registered students of the undergraduate level.

Different interpersonal activities are being organized by involving competent faculty members of departments of this college to accomplish the objective of Krushik Vistarana Club.

Moreover, the department is conducting field extension activity with the project activities of „Extension Wing“ and „Strengthening of Extension Wing“. The activities like khedut shibir and Crop based exhibitions are being conducted at regular interval in the seven districts of South Gujarat in which the register students of RAWE programme are also involved. These shibirs are planned and organized by considering the needs and interest of farmers of respective villages.

Human resource with the Department of Extension Education

Sr.	Name	Designation	Budget Head	Specialisation	Address
Technical Staff					
1.	Dr. R. D. Pandya	Professor & Head	(3126-1)	Res. Methodology Extension Services Scaling techniques Teaching & Training Methods	09427862188 head.ext@nau.in
2.	Dr. R. M. Naik	Associate Professor	(5106)	Professionalism, Communication Pattern	09662532816 rmnaik@nau.in
3.	Dr. P B. Khodifad	Assistant Professor	(3126-1)	Field Extension Adoption process	07567183448 pbkhodifad@nau.in
4.	Vacant	Asst. Professor	(5106)	---	---
5.	Vacant	Asst. Professor	(5106)	---	---
6.	Dr. O. P. Sharma	Professor # Working at.. Dept. Ext. Education	(12404)	Communication & Technological Gap, Training Needs	+919601283381 sharma.op72@gmail.com
7.	Vacant	Photographer	(5240)	---	---
8.	Vacant	Lab Tech.	(3126-1)	---	---
Non Technical Staff					
9.	Vacant	Lab Boy	(3126-1)	---	---

Extension Wing

Technical Staff					
1.	Vacant	Asst. Professor	(5240)	---	---
Non Technical Staff					
2.	Vacant	Comp. Programmer	(5240)	---	---
3.	Vacant	Driver	(5240)	---	---
4.	Vacant	Peon	(5240)	---	---

(ii) Strengthening of Extension Wing

Technical Staff					
1.	Contract based	Two Daily wages One Driver		(121145)	

Financial inventory

(Amount in lakh)

Sr.	Budget Head	2013-14		2014-15		2015-16		2016-17		2017-18	
		Allotted	Used	Allotted	Used	Allotted	Used	Allotted	Used	Allotted	Used
1.	5240	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2.	12968	4.00	3.97	10.00	9.99	10.30	10.30	17.21	17.21	16.42	16.42
4	12145	3.50	3.48	3.00	3.00	4.20	4.20	4.10	4.10	3.64	3.64

Physical resources

Sr.

Particulars

1. Computers with high speed internet connectivity
2. Departmental Library
3. Audio-Visual laboratory with portable audio visual aids
4. Well equipped RAWE hall
5. Well equipped postgraduate class room
6. Jeep for field visit

: Achievement:

Sr.

Particulars

1. Since establishment of NAU, 12 students have passed the NET/ASRB examinations and 5 have had National Talent Scholarship.
2. Dr. R. D. Pandya, HoD is Executive Councillor, West Zone in Indian Society of Extension Education.
3. Dr. R. D. Pandya, HoD is Executive Member in Society of Extension Education, Gujarat.
4. Dr. R. D. Pandya, HoD was honored with „Fellow Award“ by Indian Society of Extension Education as at C.G.A. College, Lacknow, 2013.
5. Dr. R. D. Pandya, HoD was honored with ‘Best Teacher’ Awards for Agricultural Faculty by Navsari Agricultural University, Navsari, 2015.
6. Dr. R. D. Pandya, HoD is acting as facilitator for PGDAEM sponsored by MANAGE.
7. Dr. R. M. Naik, Assistant Professor (Extension), N. M. College of Agriculture, NAU, Navsari was honoured with „Best Thesis Award-2008“ by GAAS, Ahmadabad.
8. Since beginning, 24 Ph.D. and 115 M.Sc. (Agril.) students obtained their degrees.
9. Faculty members have prepared 5 practical manuals for undergraduate students.
10. Faculties are invited as guest lecturer to deliver the views on present issues of extension and its periphery at SSK, FTC, KVK, T & V, Forest department etc;
11. Department has organized 4 State and 1 National levels seminar.
12. Department has organized workshop on Scientific Report Writing.
13. Nearly 150 research papers were published in state, national and international level journals by the faculty members.
14. More than 50 popular articles were published in various agricultural magazines/daily news papers by the faculty members.
15. About 1300 undergraduate students have registered under Krushi Vistaran Club and 126 Khedut Shibirs were organized.
16. About 15 folders were prepared by faculties on major crops of the region.

: PHOTO GLORY:

Activities organised in Adopted village under Strengthening of Extension Wing : (B.H. 12145)



Khedut Shibir at Kikvad



Khedut Shibir at Umran village



Farmers-Scientist- Student interface (Khedut Shibir at Dungarda)



Farmers-Scientist- Student interface (Khedut Shibir at Jamlapada)



Farmers field visit



Farmers field visit

SEEG-NAU National Seminar on Magnitude of Extension Approaches in Agricultural Development (2015)





Work-Shop on Scientific Research Writing



22nd -24th Aug.2018



Department of Extension Education



DEPARTMENT OF EXTENSION EDUCATION

N. M. COLLEGE OF AGRICULTURE

NAU, NAVSARI