

**DIRECTORATE OF RESEARCH
ANAND AGRICULTURAL UNIVERSITY
UNIVERSITY BHAVAN, ANAND-388 110 (Gujarat)**



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No. AAU/DR/RES/T-3/ 6384 /2019 **Date: 14 /10/2019**

To,

1. All University Officers, AAU, Anand
2. All Conveners of AGRESCO Sub-Committee, AAU, Anand
3. All Unit / Sub-Unit Officers of AAU, Anand

Sub : Experiment code number.....15th Combined AGRESCO

Enclosed, please find herewith the code numbers assigned to the new technical programme/s which is/are approved in Fifteenth Combined AGRESCO of SAUs held during April 29 to May 1, 2019 at AAU, Anand. Now, you are requested to use these code numbers in AGRESCO report in future.

Encl : As above


**Director of Research &
Dean P. G. Studies**

NEW TECHNICAL PROGRAMMES APPROVED IN 15TH COMBINED AGRESKO HELD AT AAU, ANAND (2019)

Abbreviations

CI : Crop Improvement

CP : Crop Production

PP : Plant Protection

SS : Social Sciences

AP : Animal Production and Fisheries

AH : Animal Health

**AE-AIT : Agricultural Engineering and Agricultural
Information Technology**

DS-FPT : Dairy Science and Food Processing Technology

Sr. No.	Title of Experiment	Code Number	Implementing Department/Unit
15.1 Crop Improvement			
15.1.3.11	Identification of molecular markers associated with Yellow Mosaic Disease Resistance in black gram (<i>Vigna mungo</i> (L.) Hepper)	CI/ Genetics & Plant Breeding /2019/01	Professor & Head, Dept. of Genetics & Plant Breeding, BACA, Anand
15.1.3.12	Screening and evaluation of diverse germplasm of okra for nematode resistance	CI/Ag. Biotech, Anand/ 2019/01	Research Scientist, Dept. of Agricultural Biotechnology, AAU, Anand
15.1.3.13	Evaluation of turmeric genotypes for yield and quality	CI/M&APRS/2019/01	Associate Res. Sci., Medicinal and Aromatic Plants Res. Station, AAU, Anand
15.1.3.14	Evaluation of linseed (<i>Linum usitatissimum</i> L.) genotypes for yield and quality parameters	CI/HMS, Dahod/2019/01	Research Scientist, Hill Millets Research Station, AAU, Dahod
15.2 Crop Production			
15.2.3.94	Composting of cereal crop waste residues through bacterial consortium	CP/Agronomy/2019/01	Prof. & Head, Dept. of Agronomy, BACA, AAU, Anand
15.2.3.95	Effect of <i>Rajayoga</i> Meditation under organically grown crops	CP/Agronomy/2019/02	Prof. & Head, Dept. of Agronomy, BACA, AAU, Anand
15.2.3.96	Feasibilities of use of Reverse Osmosis (RO) waste water in Agriculture	CP/SS&Ag.Chem/2019/01	Professor and Head, Department of Soil Science and Agril. Chem., BACA, AAU, Anand
15.2.3.97	Efficacy of schoenite as indigenous source of potassic fertilizer for potato	CP/SS&Ag.Chem/2019/02	Professor and Head, Department of Soil Science and Agril. Chem., BACA, AAU, Anand
15.2.3.98	Assessment of nitrate-N and fluoride content in ground water of middle Gujarat region	CP/SS&Ag.Chem/2019/03	Professor and Head, Department of Soil Science and Agril. Chem., BACA, AAU, Anand
15.2.3.99	Biodegradation of weed biomass through native	CP/Microbiology/2019/01	Research Scientist & Head, Dept of Microbiology, BACA, Anand

Sr. No.	Title of Experiment	Code Number	Implementing Department/Unit
	microbial biodegrader consortium		
15.2.3.100	Green fodder yield and quality of fodder maize as influenced by <i>in-situ</i> wheat straw incorporation and nitrogen levels	CP/MFRS/2019/01	Research Scientist, Main Forage Research Station, AAU, Anand
15.2.3.101	Integrated weed management in <i>rabi</i> maize	CP/Weed Control/2019/01	Agronomist & PI, AICRP-Weed Management, AAU, Anand
15.2.3.102	Chemical and non-chemical approach for weed management in turmeric	CP/Weed Control/2019/02	Agronomist & PI, AICRP-Weed Management, AAU, Anand
15.2.3.103	Effect of different organic manures and bio NPK consortium on dry biomass yield and quality of Kalmegh (<i>Andrographis peniculata</i> L.) and its residual effect on Kalijiri (<i>Baccharoides anthelmintica</i> (L.) Moench)	CP/ M&APRS /2019/01	Associate Research Scientist, M&APRS, AAU, Anand
15.2.3.104	Effect of nitrogen and phosphorus on yield of baby corn hybrid in <i>kharif</i> season	CP/MMRS, Godhra/2019/01	Associate Research Scientist, Main Maize Research Station, AAU, Godhra
15.2.3.105	Effect of nitrogen and phosphorus on yield of baby corn hybrid in <i>Rabi</i> season	CP/MMRS, Godhra/2019/02	Associate Research Scientist, Main Maize Research Station, AAU, Godhra
15.2.3.106	Nutrient management in <i>kharif</i> mungbean (<i>Vigna radiata</i> L.) through different organic sources in <i>Bhal</i> region	CP/ ARS, Dhandhuka /2019/01	Asstt. Res. Sci., Agricultural Research Station, AAU, Dhandhuka
15.2.3.107	Effects of spacing and nitrogen levels on castor grown on heavy black soil	CP/ NIRP, Khandha /2019/01	Asstt. Research Scientist, Narmada Irrigation Res. Project, AAU, Khandha
15.2.3.108	Effects of spacing and phosphorus management on pigeonpea grown on heavy black	CP/ NIRP, Khandha /2019/02	Asstt. Research Scientist, Narmada Irrigation Res. Project, AAU, Khandha
15.2.3.109	Integrated nutrient management in <i>kharif</i> black gram (<i>Vigna mungo</i> L. hepper)	CP/ TRTC, Devgadha Baria /2019/01	Research Scientist, Tribal Research cum Training Centre, AAU, Devgadha Baria
15.2.3.110	Nutrient management in Castor (GAC 11)	CP/COA, Vaso/2019/01	Principal, College of Agriculture, AAU, Vaso
15.2.3.111	Feasibility of summer sesame intercrops with optimum row ratios	Not approved	Principal, College of Agriculture, AAU, Jabugam
15.2.3.112	Response of chickpea variety to irrigation at critical growth stages	CP/ ARS, Derol /2019/01	Associate Research Scientist, Agricultural Research Station, AAU, Derol

Sr. No.	Title of Experiment	Code Number	Implementing Department/Unit
15.2.3.113	Effect of sowing time and green shed net covering on summer paddy (<i>Oryza sativa</i> L.) nursery	CP/ ARS, Thasra/2019/01	Associate Research Scientist, Agril. Res. Station for Irrigated Crops, AAU, Thasra
15.3 Plant Protection			
I. Agril Entomology			
15.3.3.78	Impact of date of sowing on incidence of fall armyworm, <i>Spodoptera frugiperda</i> (J. E. Smith) infesting maize	PP/Entomology(BACA) /2019/01	Professor and Head, Department of Entomology, BACA, AAU, Anand
15.3.3.79	Efficacy of insecticides against fall armyworm, <i>Spodoptera frugiperda</i> (J. E. Smith) infesting maize	PP/Entomology(BACA), ARS, Sansoli & MMRS, Godhra/2019/01	Prof. & Head, Department of Entomology, BACA, AAU, Anand, Assoc. Res. Sci. & Unit Head, ARS, AAU, Sansoli & Res. Sci. (Maize), MMRS, AAU, Godhra
15.3.3.80	Efficacy of granular insecticides against fall armyworm, <i>Spodoptera frugiperda</i> (J. E. Smith) in maize	PP/Entomology(BACA), ARS, Sansoli & MMRS, Godhra/2019/02	Prof. & Head, Department of Entomology, BACA, AAU, Anand, Assoc. Res. Sci. & Unit Head, ARS, AAU, Sansoli & Res. Sci. (Maize), MMRS, AAU, Godhra
15.3.3.81	Evaluation of bio-pesticides against fall army worm, <i>Spodoptera frugiperda</i> (J. E. Smith) in maize	PP/Entomology(BACA), ARS, Sansoli & MMRS, Godhra/2019/03	Prof. & Head, Department of Entomology, BACA, AAU, Anand, Assoc. Res. Sci. & Unit Head, ARS, AAU, Sansoli & Res. Sci. (Maize), MMRS, AAU, Godhra
15.3.3.82	Efficacy of poison baits against fall armyworm, <i>Spodoptera frugiperda</i> (J. E. Smith) infesting maize	PP/Entomology(BACA), ARS, Sansoli & MMRS, Godhra/2019/04	Prof. & Head, Department of Entomology, BACA, AAU, Anand, Assoc. Res. Sci. & Unit Head, ARS, AAU, Sansoli & Res. Sci. (Maize), MMRS, AAU, Godhra
15.3.3.83	Evaluation of attractants on foraging activity of honey bee in mustard	PP/Entomology(BACA) /2019/02	Professor and Head, Department of Entomology, BACA, AAU, Anand
15.3.3.84	Evaluation of different biopesticides against fall armyworm, <i>Spodoptera frugiperda</i> (J. E. Smith) (Lepidoptera: Noctuidae) in maize	PP/Biological control /2019/01	Principal Res. Sci., AICRP on Biological control, AAU, Anand

Sr. No.	Title of Experiment	Code Number	Implementing Department/Unit
15.3.3.85	Role of birds in the natural regulation of pod borer, <i>Helicoverpa armigera</i> (Hubner) in pigeon pea	PP/Ornithology/2019/01	Asso. Res. Sci. (Ornitho.), AINP on VPM: Agril. Ornithology, AAU, Anand
15.3.3.86	Predation of insect pest by cattle egret in chickpea agroecosystem	PP/Ornithology/2019/02	Asso. Res. Sci. (Ornitho.), AINP on VPM: Agril. Ornithology, AAU, Anand
15.3.3.87	Estimation of damage caused by rose ringed parakeet (<i>Psittacula krameri</i>) in pomegranate	PP/Ornithology/2019/03	Asso. Res. Sci. (Ornitho.), AINP on VPM: Agril. Ornithology, AAU, Anand
15.3.3.88	Effect of transplanting date on yield and insect-pest incidence in calcutti tobacco (<i>Nicotiana rustica</i> L.) varieties	PP/ BTRS(Ento)//2019/01	Research Scientist, Bidi Tobacco Research Station, AAU, Anand
15.3.3.89	Decontamination study of water by ozone treatment for about 100 pesticides	PP/Pesticide Residues /2019/01	Residue Analyst, AINP on Pesticide Residues, AAU, Anand
15.3.3.90	Multi-residue analysis of 100 pesticides in water using QuEChERS method and detection by LC-MS/MS and/or GC-MS/MS	PP/Pesticide Residues /2019/02	Residue Analyst, AINP on Pesticide Residues, AAU, Anand
15.3.3.91	Multi-residue analysis of 100 pesticides in cumin seeds using QuEChERS method and detection by LC-MS/MS and/or GC-MS/MS	PP/Pesticide Residues /2019/03	Residue Analyst, AINP on Pesticide Residues, AAU, Anand
15.3.3.92	Evaluation of insecticides against sucking pests infesting chilli at nursery stage	PP/MVRS (Ento.) & Pesticide Residues /2019/01	Res. Sci., MVRS, AAU, Anand & Residue Analyst, AINP on Pesticide Residues, AAU, Anand
15.3.3.93	Management of aphid in coriander through insecticidal seed treatments and bio-pesticides	PP/CoH (Ento.) /2019/01	Asstt. Prof. (Ento.), Department of Plant Protection, College of Horticulture, AAU, Anand
15.3.3.94	Efficacy of radiation for the control of lesser grain borer (<i>Rhyzopertha dominica</i>) in wheat	PP/Poly.Tech (Agri.), Anand & RRS (Ento.) /2019/01	Principal, SMC Polytechnic in Agriculture, AAU, Anand & Unit Officer, RRS, AAU, Anand
15.3.3.95	Efficacy of radiation for the control of pulse beetle in green gram	PP/ RRS (Ento.) /2019/01	Res. Scientist & Unit Head, RRS, AAU, Anand
15.3.3.96	Evaluation of insecticides against yellow stem borer and leaf folder in rice	PP/MRRS (Ento.) /2019/01	Res. Sci. (Rice), MRRS, AAU, Nawagam
15.3.3.97	Screening of inbreeds, hybrids, released varieties as well as sweet corn hybrids of maize for resistant against fall armyworm, <i>Spodoptera frugiperda</i>	PP/Entomology(BACA), ARS, Sansoli & MMRS, Godhra/2019/05	Prof. & Head, Dept. of Entomology, BACA, AAU, Anand & Res. Sci. (Maize), MMRS, AAU, Godhra & Assoc. Res. Sci. & Unit Head, ARS, AAU, Sansoli

Sr. No.	Title of Experiment	Code Number	Implementing Department/Unit
15.3.3.98	Evaluation of local practices for management of fall armyworm, <i>Spodoptera frugiperda</i> in maize	PP/Entomology(BACA), ARS, Sansoli & MMRS, Godhra/2019/06	Prof. & Head, Dept. of Entomology, BACA, AAU, Anand & Res. Sci. (Maize), MMRS, AAU, Godhra & Assoc. Res. Sci. & Unit Head, ARS, AAU, Sansoli
15.3.3.99	Effect of transplanting dates on pest complex and diseases in tomato	PP/CoA (Ento.) & CoA (Patho.), Vaso /2019/01	Asstt. Prof., Department of Entomology, CoA, AAU, Vaso & Asstt. Prof., Department of Plant Pathology, CoA, AAU, Vaso
II. Plant Pathology and Nematology			
15.3.3.100	Field evaluation of ready-mix fungicides against cumin blight	PP/Pathology /2019/01	Prof. & Head, Dept. of Plant Pathology, BACA, AAU, Anand
15.3.3.101	Management of foliar diseases of turmeric through fungicides	PP/Pathology /2019/02	Prof. & Head, Dept. of Plant Pathology, BACA, AAU, Anand
15.3.3.102	Evaluation of silver nanoparticles as antiviral agent against tomato leaf curl disease	PP/Pathology /2019/03	Prof. & Head, Dept. of Plant Pathology, BACA, AAU, Anand
15.3.3.103	Screening and evaluation of diverse germplasm of okra for nematode resistance	PP/Nematology/2019/01	Prof. & Head, Department of Nematology, BACA, AAU, Anand
15.3.3.104	Management of phytonematodes in chickpea by bacterial bioagents	PP/Nematology/2019/02	Prof. & Head, Department of Nematology, BACA, AAU, Anand
15.3.3.105	Management of root-knot nematode, <i>Meloidogyne</i> sp. in groundnut	PP/Nematology/2019/03	Prof. & Head, Department of Nematology, BACA, AAU, Anand
15.3.3.106	Bio-management of root-knot nematode, <i>Meloidogyne</i> spp. and fungal wilt complex, <i>Fusarium</i> spp. in guava	PP/Nematology/2019/04	Prof. & Head, Department of Nematology, BACA, AAU, Anand
15.3.3.107	Documentation of nematode infested horticultural nurseries in the state	PP/Nematology/2019/05	Prof. & Head, Department of Nematology, BACA, AAU, Anand
15.3.3.108	Evaluation of new chemical molecules against <i>Meloidogyne</i> spp. infecting cucumber in polyhouse	PP/Nematology/2019/06	Prof. & Head, Department of Nematology, BACA, AAU, Anand
15.3.3.109	Demonstration on integrated nematode management on cucumber in polyhouses	PP/Nematology/2019/07	Prof. & Head, Department of Nematology, BACA, AAU, Anand
15.3.3.110	Effects of bio-fumigation for management of root-knot nematode in bidi tobacco nursery	PP/ BTRS(Nemato.)/2019/01	Research Scientist, Bidi Tobacco Research Station, AAU, Anand
15.3.3.111	Re-evaluation of ready mix fungicides for the management of blast disease of rice	PP/MRRS, Nawagam (Patho.) /2019/01	Res. Sci. (Rice), MRRS, AAU, Nawagam
15.3.3.112	Evaluation of ready mix fungicides for the management of false smut disease of rice	PP/MRRS, Nawagam (Patho.) /2019/02	Res. Sci. (Rice), MRRS, AAU, Nawagam

Sr. No.	Title of Experiment	Code Number	Implementing Department/Unit
15.3.3.113	Management of late wilt of maize caused by <i>Fusarium verticilloides</i>	PP/MMRS, Godhra (Patho.) /2019/01	Res. Sci. (Maize), MMRS, AAU, Godhra
15.3.3.114	Evaluation of different modules for effective management of banded leaf and sheath blight (<i>Rhizoctonia solani</i>) of maize	PP/MMRS, Godhra (Patho.) /2019/02	Res. Sci. (Maize), MMRS, AAU, Godhra
15.3.3.115	Screening of various white and yellow maize genotypes for their resistance against turcicum leaf blight (<i>Exserohilum turcicum</i>) of maize under artificial conditions	PP/MMRS, Godhra (Patho.) /2019/03	Res. Sci. (Maize), MMRS, AAU, Godhra
15.3.3.116	Effect of transplanting date on yield and insect pest and disease incidence in Rustica tobacco	PP/CoA (Ento.) & CoA (Patho.), Vaso /2019/02	Asstt. Prof., Department of Entomology, CoA, AAU, Vaso & Asstt. Prof., Department of Plant Pathology, CoA, AAU, Vaso
15.4 Horticulture and Agro Forestry			
15.4.3.73	Effect of transplanting time and spacing on growth and yield of summer African marigold (<i>Tagetes erecta</i> L.) cv. Punjab Genda 1.	CP/Horticulture/2019/01	Professor & Head, Department of Horticulture, BACA, AAU, Anand
15.4.3.74	Standardization of suitable time of softwood grafting in guava cv. Allahabad Safeda	CP/Horticulture/2019/02	Professor & Head, Department of Horticulture, BACA, AAU, Anand
15.4.3.75	Effect of spacing and nitrogen on growth, flowering, yield and shelf life of Kashmiri <i>desi</i> rose (<i>Rosa chinensis</i>)	CP/CoH, Anand /2019/01	Principal, College of Horticulture (Wing), AAU, Anand
15.4.3.76	Effect of different thickness and levels of IBA on hard wood cutting for multiplication of drumstick	CP/ Poly tech(Horti.), Vadodara/2019/01	Principal, Polytechnic in Horticulture, Model Farm, AAU, Vadodara
15.4.3.77	Integrated Nutrient management in chilli (<i>Capsicum annum</i> L.)	CP/CoA, Jabugam (Horti.) /2019/01	Principal, Agricultural Research Station, COA, AAU, Jabugam
15.4.3.78	Effect of planting time and bunch management on yield and economics of banana	CP/CoA, Jabugam (Horti.) /2019/02	Principal, Agricultural Research Station, COA, AAU, Jabugam
15.4.3.79	Feasibilities of use of Reverse Osmosis (RO) waste water in custard apple	CP/ SS & Ag. Chem and Horticulture (BACA), /2019/01	Professor & Head, Dept of Soil Sci. & Agril. Chem., BACA, Anand and Professor & Head, Department of Horticulture, BACA, AAU, Anand
15.4.3.80	Feasibility of use of Reverse Osmosis (RO) waste water in gaillardia	CP/ SS & Ag. Chem and Horticulture (BACA), /2019/02	Professor & Head, Dept of Soil Sci. & Agril. Chem., BACA, Anand and Professor & Head, Department of Horticulture, BACA, AAU, Anand

Sr. No.	Title of Experiment	Code Number	Implementing Department/Unit
15.5 Dairy Science and FPT&BE			
15.5.3.6	Technology for Development of Fermented Milk Powder	DS·FPT/Dairy Technology, /2019/01	Prof. & Head, Dept. of Dairy Technology, DSC, AAU, Anand
15.5.3.7	Developments of Methods for Detection of Adulterants in Milk and Milk Products	DS·FPT/Dairy Chemistry /2019/01	Prof. & Head, Dept. of Dairy Chemistry, AAU, Anand
15.5.3.8	Development of dairy starter cultures and value added dairy products (Sub-project: Evaluation of antiobesity effect of Probiotic Fermented Milk enriched with Finger Millet)	DS·FPT/Dairy Microbiology /2019/01	Prof. & Head, Dept. of Dairy Microbiology, DSC, AAU, Anand
15.5.3.9	Plasmid profile of Lactic Acid Bacteria and their use as bio-medical agents (Sub-project: Evaluation of Antimicrobial Activity of Lactic Acid Bacteria Strains against Mastitic Milk Isolates of <i>Staphylococcus aureus</i> and <i>Escherichia coli</i>)	DS·FPT/Dairy Microbiology /2019/02	Prof. & Head, Dept. of Dairy Microbiology, DSC, AAU, Anand
15.5.3.10	Development of dairy starter cultures and value added dairy products (Sub-project: Evaluation of Lactic Acid Bacteria for β -galactosidase activity and its use in preparation of lactose hydrolysed milk)	DS·FPT/Dairy Microbiology /2019/03	Prof. & Head, Dept. of Dairy Microbiology, DSC, AAU, Anand
15.5.3.11	Plasmid profile of Lactic Acid Bacteria and their use as bio-medical agents (Sub-project: <i>In-Vitro</i> Evaluation of selected probiotics cultures for oral health benefits)	DS·FPT/Dairy Microbiology /2019/04	Prof. & Head, Dept. of Dairy Microbiology, DSC, AAU, Anand
15.5.3.12	Design and Development of a Solar based incubation room	DS·FPT/Dairy Engineering /2019/01	Prof. & Head, Dept. of Dairy Engineering, DSC, AAU, Anand
15.5.3.13	Energy Saving potential through Partial homogenization of milk over conventional milk homogenization	DS·FPT/Dairy Engineering /2019/02	Prof. & Head, Dept. of Dairy Engineering, DSC, AAU, Anand
15.5.3.14	Effect of different pretreatments on mature banana for increasing the shelf life	DS·FPT/PHET, FPT&BE/2019/01	Prof. & Head, Dept of PHET, FPT & BE, AAU, Anand
15.5.3.15	Process development of cereals based product enriched with garden cress for lactating women	DS·FPT/FPT, FPT&BE/2019/01	Prof. & Head, Dept. of Food Process. Tech., FPT & BE, AAU, Anand
15.5.3.16	Standardization of <i>moringa</i> pulping technique using brush type pulper	DS·FPT/FPT, FPT&BE/2019/02	Prof. & Head, Dept. of Food Process. Tech., FPT & BE, AAU, Anand
15.5.3.17	Technology for production of superior quality of	DS·FPT/FQA,	Prof. & Head, Dept. of Food Quality

Sr. No.	Title of Experiment	Code Number	Implementing Department/Unit
	cinnamon essential oil using super critical fluid extraction	FPT&BE/2019/01	Assurance, FPT & BE, AAU, Anand
15.5.3.18	Decontamination effect of Dielectric Barrier Discharge plasma and UV-C on selected microorganisms	DS·FPT/FQA, FPT&BE/2019/02	Prof. & Head, Dept. of Food Quality Assurance, FPT & BE, AAU, Anand
15.5.3.19	Technology for Extraction of Carvone and Limonene rich Essential Oil from Dill Seed	DS·FPT/FQA, FPT&BE/2019/03	Prof. & Head, Dept. of Food Quality Assurance, FPT & BE, AAU, Anand
15.5.3.20	Super Critical Fluid Extraction of Essential Oil from Fennel Seed	DS·FPT/FQA, FPT&BE/2019/04	Prof. & Head, Dept. of Food Quality Assurance, FPT & BE, AAU, Anand
15.5.3.21	Development of irradiation technology for agricultural, animal, dairy and food products. (SubTitle: Technology for continuous microwave drying of <i>Moringa oliefera</i> leaves)	DS·FPT/FE, FPT&BE/2019/01	Prof. & Head, Dept. of Food Engineering, FPT & BE, AAU, Anand
15.5.3.22	Study of air temperature and velocity distribution in the heat pump assisted dryer by Computational Fluid Dynamics	DS·FPT/FE, FPT&BE/2019/02	Prof. & Head, Dept. of Food Engineering, FPT & BE, AAU, Anand
15.5.3.23	Study on performance of grid connected 20 kW solar Photo-Voltaic system	DS·FPT/FE, FPT&BE/2019/03	Prof. & Head, Dept. of Food Engineering, FPT & BE, AAU, Anand
15.5.3.24	Development of fuzzy logic controller for effective garden irrigation	DS·FPT/FE, FPT&BE/2019/04	Prof. & Head, Dept. of Food Engineering, FPT & BE, AAU, Anand
15.5.3.25	Osmotic drying of Ultrasonic pretreated Sapota	DS·FPT/FPC, Horticulture/2019/01	Prof & Head, Fruit Processing Centre, Dept. of Horticulture, BACA, AAU, Anand
15.6 Agricultural Engineering, Agricultural Information Technology			
15.6.3.34	Interface Module for Inversion of Canopy Radiative Transfer Model PROSAIL	AE·AIT/ AIT /2019/01	Principal, College of Agril. Information Tech., AAU, Anand
15.6.3.35	Web based Climate Data Processing and Analysis Tools	AE·AIT/ AIT /2019/02	Principal, College of Agril. Information Tech., AAU, Anand
15.6.3.36	Atmospheric Correction Module with Standalone Interface for GeoTIFF Imagery Using SixS (6S) Model	AE·AIT/ AIT /2019/03	Principal, College of Agril. Information Tech., AAU, Anand
15.6.3.37	Transformation of Information Through Multimedia Based Interactive Media for Castor Crop	AE·AIT/ AIT /2019/04	Principal, College of Agril. Information Tech., AAU, Anand

Sr. No.	Title of Experiment	Code Number	Implementing Department/Unit
15.6.3.38	Transformation of Information Through Multimedia Based Interactive Media for Organic Farming	AE·AIT/ AIT /2019/05	Principal, College of Agril. Information Tech., AAU, Anand
15.6.3.39	Breeder Seed Management System for Government of Gujarat	AE·AIT/ DIT /2019/01	Director, IT, DIT, AAU, Anand
15.6.3.40	Online Repository and Analysis of Fall Armyworm(FAW) for Government of Gujarat	AE·AIT/ DIT /2019/02	Director, IT, DIT, AAU, Anand
15.6.3.41	Modification of Bullock Drawn Indigenous Wooden Plough For Tribal Region of Middle Gujarat	AE·AIT/ AE /2019/01	HoD (FMPE), College of Agril. Engg. & Tech. , AAU, Godhra
15.6.3.42	Design and development of mini tractor drawn two row automatic potato planter cum fertilizer applicator	AE·AIT/ AE /2019/02	HoD (FMPE), College of Agril. Engg. & Tech. , AAU, Godhra
15.6.3.43	Development of perforated storage bin for garlic	AE·AIT/ AE/2019/03	HoD (P & FE), College of Agril. Engg. & Tech. , AAU, Godhra
15.6.3.44	Optimization of process parameters for protein fortified Kesar Mango Leather.	AE·AIT/ AE/2019/04	HoD (P & FE), College of Agril. Engg. & Tech. , AAU, Godhra
15.6.3.45	Remote sensing and GIS based approach for identifying prospective water harvesting sites in the Panam sub-watershed of Mahi River Basin, India	AE·AIT/ AE-CoA, Vaso/2019/01	Principal, College of Agriculture, AAU, Vaso
15.7 Social Science			
15.7.3.82	An Economic Evaluation of Cabbage Cultivation in Anand District	SS/Ag. Econ/2019/01	Professor & Head, Dept. of Agril. Economics, BACA, AAU, Anand
15.7.3.83	Growth and prospects of export of dairy products from India	SS/Ag. Econ/2019/02	Professor & Head, Dept. of Agril. Economics, BACA, AAU, Anand
15.7.3.84	Econometric Inve An Econometric Investigation on Paddy Market Integration in Middle Gujarat	SS/Ag. Econ/2019/03	Professor & Head, Dept. of Agril. Economics, BACA, AAU, Anand
15.7.3.85	Economic analysis of production of spine gourd	SS/CoA(Econ.), Jabugam /2019/01	Principal, College of Agriculture, AAU, Jabugam
15.7.3.86	Economic Analysis and Water Productivity of Oil Palm Cultivation in Central Gujarat	SS/ IABMI/2019/01	Principal, IABMI, AAU, Anand
15.7.3.87	Current Status, Prospects and Problems of Papad Industry in Central Gujarat	SS/ IABMI/2019/02	Principal, IABMI, AAU, Anand
15.7.3.88	Study of Cash Flow Analysis of Food Processing Companies in India	SS/ IABMI/2019/03	Principal, IABMI, AAU, Anand
15.7.3.89	Status of Pashuhaat in Middle Gujarat	SS/ IABMI/2019/04	Principal, IABMI, AAU, Anand
15.7.3.90	Economics of Ankleshwar Chicken Rearing in	SS/ IABMI/2019/05	Principal, IABMI, AAU, Anand

Sr. No.	Title of Experiment	Code Number	Implementing Department/Unit
	Bharuch District of Gujarat		
15.7.3.91	AICT awareness among the participants of training programme of Reproductive Biology Research Unit, AAU, Anand	SS/DBM/2019/01	Professor & Head, Dept. of DBM, Dairy Sci. College, AAU, Anand
15.7.3.92	A study of performance of Small, Medium, and Large size Cooperative Dairies of Gujarat state	SS/DBM/2019/02	Professor & Head, Dept. of DBM, Dairy Sci. College, AAU, Anand
15.7.3.93	Assessing the consumers' perception towards street foods in Anand – Vidhyanagar	SS/DBM/2019/03	Professor & Head, Dept. of DBM, Dairy Sci. College, AAU, Anand
15.7.3.94	Evaluation and revalidation of recommendations for the yardstick of CV % for field experiments conducted at AAU research stations on different crops	SS/Ag. Statistics/2019/01	Professor & Head, Dept. of Agril. Statistics, BACA, Anand
15.7.3.95	Modelling and forecasting of area, production productivity of major oilseed crops (Groundnut, Cotton, Castor, Mustard and Sesame) in Gujarat using structural time series model	SS/Ag. Statistics/2019/02	Professor & Head, Dept. of Agril. Statistics, BACA, Anand
15.7.3.96	Modelling and forecasting of area, production and productivity of major fruit crops in Gujarat - An application of Artificial Neural Network	SS/Ag. Statistic/2019/03	Professor & Head, Dept. of Agril. Statistics, BACA, Anand
15.7.3.97	Comparison of different weather based fuzzy regression model with other techniques for prediction of rice yield in middle Gujarat	SS/ Basic Science/2019/01	Professor and Head, Dept. of Basic Science and Humanities, BACA, AAU, Anand
15.7.3.98	Development and standardization of a test to measure knowledge about Terrace Gardening	SS/ Ext. Edu./2019/01	Professor & Head, Dept. of Ext. Edn. & Commu., BACA, AAU, Anand
15.7.3.99	Adaptation Strategies of Climate-smart agriculture technologies followed by the farmers in Anand District of Gujarat State	SS/ Ext. Edu./2019/02	Professor & Head, Dept. of Ext. Edn. & Commu., BACA, AAU, Anand
15.7.3.100	Development and standardization of scale to measure the self-confidence of rural youth to work in farming	SS/ Ext. Edu/2019/03	Professor & Head, Dept. of Ext. Edn. & Commu., BACA, AAU, Anand
15.7.3.101	Soft skills of field veterinary officers	SS/ EEI /2019/01	Director, EEI, AAU, Anand
15.7.3.102	Training needs of ATMA personnel	SS/ EEI /2019/02	Director, EEI, AAU, Anand
15.7.3.103	Study on assessment of training needs of the state officials of agriculture and allied departments of Western India	SS/ EEI /2019/03	Director, EEI, AAU, Anand
15.7.3.104	Effectiveness of training for promoting quality seed production	SS/ DoEE /2019/01	Director of Extension Education AAU, Anand
15.7.3.105	Usefulness of Sardar Patel Agricultural Educational	SS/ DoEE /2019/02	Director of Extension Education

Sr. No.	Title of Experiment	Code Number	Implementing Department/Unit
	Museum, as perceived by farmer visitors		AAU, Anand
15.7.3.106	Effectiveness of training for promoting cultivation of medicinal and aromatic plants	SS/ DoEE /2019/03	Director of Extension Education AAU, Anand
15.7.3.107	Information needs of maize growers of Chhotaudepur district	SS/ CoA, Jabugam/ 2019/01	Principal, Agriculture College, AAU, Jabugam
15.7.3.108	Awareness of buffalo owners about causes of infertility in buffalo in Panchmahals district	SS/ Ext. Edu, Veterinary /2019/01	Assoc. Professor & Head, Dept. of Veterinary Ext., Veterinary Sci. College, AAU, Anand
15.7.3.109	Study of knowledge level of dairy animal breeding practices of farm women in Vasotaluka of Kheda district	SS/ CoA, Vaso/ 2019/01	Principal, Agriculture College, AAU, Vaso
15.7.3.110	Entrepreneurial ability of youth farmers of Kheda district	SS/ CoA, Vaso/ 2019/02	Principal, Agriculture College, AAU, Vaso
15.7.3.111	Adoption dynamics of farm woman labourers with special reference to health and nutritional management practices	SS/ PFSHE /2019/01	Principal, Polytechnic in Food Science & Home Economics, AAU, Anand
15.7.3.112	Goat rearing management practices followed by goat keepers of Vadodara district	SS/ Horti.(Poly.), Vadodara /2019/01	Principal, Polytechnic in Horticulture, AAU, Vadodara
15.7.3.113	Knowledge and adoption of farmers about pest management in maize crop in Panchmahals district	SS/ ARS, Derol/2019/01	Assoc. Research Sci. & Head, ARS, AAU, Derol
15.7.3.114	Knowledge and adoption of trained maize farmers about recommended maize production technology	SS/ MMRS, Godhra/2019/01	Associate Research Scientist, Main Maize Research Station, AAU, Godhra
15.7.3.115	Effect of Frontline Demonstration of <i>Kharif</i> maize on the maize growers of Panchmahals District	SS/ MMRS, Godhra/2019/02	Associate Research Scientist, Main Maize Research Station, AAU, Godhra
15.7.3.116	An Economic performance of dairy farmers in irrigated and non-irrigated area of Ahmedabad district of Gujarat state	SS/KVK, Arnej /2019/01	Senior Scientist & Head, KVK, AAU, Arnej
15.7.3.117	Study on adoption of scientific practices of cattle rearing by the cattle owners	SS/KVK, Devataj /2019/01	Senior Scientist & Head, KVK, AAU, Devataj
15.7.3.118	Perception of gobar gas owners about its usefulness	SS/KVK, Devataj /2019/02	Senior Scientist & Head, KVK, AAU, Devataj
15.7.3.119	Perception of farmers about usefulness of solar energy	SS/KVK, Devataj /2019/03	Senior Scientist & Head, KVK, AAU, Devataj
15.7.3.120	Effect of Front Line Demonstrations on adoption of supplementary feeding of mineral mixture to	SS/ KVK, Mangal Bharati /2019/01	Senior Scientist & Head, KVK, Mangalbharti

Sr. No.	Title of Experiment	Code Number	Implementing Department/Unit
	milking animals in Chhotaudepur District, Gujarat".		
15.7.3.121	Effect of Front Line Demonstrations of Black gram on farmers of Kheda district	SS/ KVK, Dethali/2019/01	Senior Scientist & Head, KVK, Gujarat Vidhyapith, Dethali
15.7.3.122	Perception of the farmers of Dahod district about backyard poultry farming	SS/ KVK, Dahod /2019/01	Senior Scientist & Head, KVK, AAU, Dahod
15.7.3.123	Knowledge of dairy farmers about clean milk production in operational area of Pashu Vigyan Kendra	SS/ PVK, Limkheda/2019/01	Head, Pashu Vigyan Kendra, D'Baria
15.7.3.124	Training needs of livestock keepers in goat farming in operational area of PashuVigyan Kendra	SS/ PVK, Limkheda/2019/01	Head, Pashu Vigyan Kendra, D'Baria
15.7.3.125	Knowledge of dairy farmers about bovine ectoparasites in operational area of Dairy Vigyan Kendra, Vejalpur	SS/ DVK, Vejalpur/2019/01	Associate Professor, Dairy Vigyan Kendra, AAU, Vejalpur
15.7.3.126	Constraints experienced by vegetable growers in commercial cultivation of vegetables	SS/ FTTC, Sansoli/2019/01	Assistant Ext. Edu. & Head, FTTC, Nenpur- Sansoli
15.7.3.127	A Study on Knowledge of Nutritional Practices among the Asha Workers of Dahod District	Not Approved	Training Organizer, TRTC & TFWTC, AAU, Devgadhabaria
15.7.3.128	Effect of Front Line Demonstrations of Soybean on Soybean Growers of Dahod District	SS/ TRTC, Devgadhabaria /2019/01	Training Organizer, TRTC & TFWTC, AAU, Devgadhabaria
15.8 Basic Science			
15.8.3.29	Biochemical changes associated with induction of silicic acid in leaf and fruit of Okra	CI/Biochemistry/2019/01	Professor & Head, Department of Biochemistry, BACA, AAU, Anand
15.8.3.30	QTL mapping for wilt resistance in castor	CI/Ag. Biotech/2019/01	Prof. & Head, Department of Agricultural Biotechnology, AAU, Anand
15.8.3.31	Molecular markers based characterization of diverse germplasm of <i>Gossypium herbaceum</i>	CI/Ag. Biotech/2019/02	Prof. & Head, Department of Agricultural Biotechnology, AAU, Anand
15.8.3.32	Optimization of tissue culture protocol in Oil palm (<i>Elaeis guineensis</i>)	CI/Tissue Culture/2019/01	Asstt. Research Scientist, Centre for advanced research in plant Tissue culture, AAU, Anand
15.8.3.33	Development of micropropagation protocol for large scale multiplication of guava (<i>Psidium guajava</i> L.)	CI/Tissue Culture/2019/02	Asstt. Research Scientist, Centre for advanced research in plant Tissue culture, AAU, Anand
15.9 Animal Health Animal Production and Fisheries			
Animal Health			
15.9.3.66	Evaluation of <i>in vitro</i> antibacterial activity of clove oil (<i>Syzygium aromaticum</i>) and lemon grass oil	AH/Pharmacology & Toxicology /2019/01	Prof. and Head, Dept. of Vet. Pharmacology & Toxicology,

Sr. No.	Title of Experiment	Code Number	Implementing Department/Unit
	(<i>Cymbopogon flexuosus</i>)		Veterinary College, AAU, Anand
15.9.3.67	Studies on sub-acute toxicity of clove oil (<i>Syzygium aromaticum</i>) in rats	AH/Pharmacology & Toxicology /2019/02	Prof. and Head, Dept. of Vet. Pharmacology & Toxicology, Veterinary College, AAU, Anand
15.9.3.68	Prevalence and Haemato-Biochemical studies of <i>Toxocara canis</i> infection in dogs	AH/ Vet. Parasitology /2019/ 01	Prof. and Head, Dept. of Vet. Parasitology, Veterinary College, AAU, Anand
15.9.3.69	Studies on the Gastrointestinal Helminth Parasites of Buffaloes in Anand Taluka	AH/ Vet. Parasitology /2019/ 02	Prof. and Head, Dept. of Vet. Parasitology, Veterinary College, AAU, Anand
15.9.3.70	Experimental study on protective efficacy of immune complex vaccine and intermediate plus vaccine against field IBD virus in broiler chicks	AH/ Vet. Pathology /2019/01	Prof. and Head, Dept. of Vet. Pathology, Veterinary College, AAU, Anand
15.9.3.71	Determination of <i>in vitro</i> antibacterial activity of lactic acid producing bacteria (LAB) against <i>E. coli</i> isolates of poultry origin	AH/Vet. Microbiology /2019/01	Prof. and Head, Dept. of Vet. Microbiology, Veterinary College, AAU, Anand
15.9.3.72	Understanding Breeding in Pet Canine Females	AH/ Gynaecology and Obstetrics /2019/01	Prof. and Head, Dept. of Gynaecology and Obstetrics, Veterinary College, AAU, Anand
15.9.3.73	Validation of Polyherbal Ethno-Veterinary Formulation in Treatment of Infertility in Dairy Bovines	AH/ Gynaecology and Obstetrics /2019/02	Prof. and Head, Dept. of Gynaecology and Obstetrics, Veterinary College, AAU, Anand
15.9.3.74	Isolation, identification and molecular characterization of ESBL producing <i>Escherichia coli</i> from raw milk samples	AH/ VPH /2019/01	Prof. and Head, Dept. of Vet. Public Health & Epidemiology, Veterinary College, AAU, Anand
15.9.3.75	Isolation and Characterization of <i>Bacillus cereus</i> from poultry meat	AH/ VPH /2019/02	Prof. and Head, Dept. of Vet. Public Health & Epidemiology, Veterinary College, AAU, Anand
15.9.3.76	Detection of <i>Salmonella</i> spp. in Poultry meat by loop-mediated isothermal amplification (LAMP) assay	AH/ VPH /2019/03	Prof. and Head, Dept. of Vet. Public Health & Epidemiology, Veterinary College, AAU, Anand
15.9.3.77	Clinico-diagnosis and Surgico-therapeutic Management of Lower Urinary Tract Affections in Dogs	AH/ Surgery & Radiology /2019/01	Prof. and Head, Dept. of Vet. Surgery & Radiology, Veterinary College, AAU, Anand
Animal Production and Fisheries			
15.9.3.78	Effect of feeding bypass fat on reproductive and	AP/ RBRU /2019/01	Research Scientist & Head, RBRU,

Sr. No.	Title of Experiment	Code Number	Implementing Department/Unit
	productive performance of Surti buffaloes		Veterinary College, AAU, Anand
15.9.3.79	Phenotypic characterization of native chicken of North Gujarat	AP/ Poultry /2019/01	Research Scientist & Head, Poultry Research Station, Veterinary College, AAU, Anand
15.9.3.80	Evaluation of physical and economical characteristics of Inbred stock of native chicken	AP/ Poultry /2019/02	Research Scientist & Head, Poultry Research Station, Veterinary College, AAU, Anand
15.9.3.81	Supplementation of bypass fat for fattening of Surti male goats	AP/ANRS/2019/01	Research Scientist & Head, ANRS, Veterinary College, AAU, Anand
15.9.3.82	<i>In-vitro</i> evaluation of different variety of paddy straw of Main Rice Research Station, Nawagam	AP/ANRS/2019/02	Research Scientist & Head, ANRS, Veterinary College, AAU, Anand
15.9.3.83	Evaluation of different variety of paddy straw grown under control condition	AP/ANRS/2019/03	Research Scientist & Head, ANRS, Veterinary College, AAU, Anand
15.9.3.84	Dietary interventions for designer milk production in dairy cattle	AP/ANRS/2019/04	Research Scientist & Head, ANRS, Veterinary College, AAU, Anand
15.9.3.85	Effect of betaine supplementation on milk production and heat stress in crossbred cows	AP/ANRS/2019/05	Research Scientist & Head, ANRS, Veterinary College, AAU, Anand
15.9.3.86	Methane mitigation in crossbred cows under different feeding regimes	AP/ANRS/2019/06	Research Scientist & Head, ANRS, Veterinary College, AAU, Anand
15.9.3.87	Methane mitigation in crossbred bullocks by dietary interventions	AP/ANRS/2019/07	Research Scientist & Head, ANRS, Veterinary College, AAU, Anand
15.9.3.88	Assessment of nutritive value of Cactus (<i>Opuntia ficus indica</i>)	AP/ANRS/2019/08	Research Scientist & Head, ANRS, Veterinary College, AAU, Anand
15.9.3.89	Microsatellite and SNP Genotyping of elite Gir animals of Gujarat	AP/Ani. Biotech/2019/01	Professor and Head, Dept. of Animal Biotechnology, Veterinary College, AAU, Anand
15.9.3.90	Evaluation of milk quality and yield performance traits of Dagri cattle	AP/AGB/2019/01	Professor & Head, Dept. of Animal Genetics & Breeding, Vet. College, AAU, Anand
15.9.3.91	Performance of sheared and non-sheared sheep under green net roof	AP/LPM /2019/01	Professor and Head, Dept. of LPM, Veterinary College, AAU, Anand
15.9.3.92	Effect of feeding maize on growth and coloration of Molly fish, <i>Poecilia sphenops</i>	AP/KVK, Devataj/2019/01	Scientist (Fisheries), KVK, Devataj, AAU, Anand