

**Agril. Engg. & Technology Faculty : Theses of Ph.D. (2005-06 to 2025-26)**

Sr. No.	Faculty	Discipline	Name of Student and Reg. No.	Name of Major Guide	Title of Ph.D. thesis	Year of degree
1	Agricultural Engineering & Technology	Soil and Water Engineering	Rank H.D.	Dr. M Mallik	Effect of irrigation systems and moisture regimes on physiological water response function of cotton.	2005
2	Agricultural Engineering & Technology	Agricultural Process and Food Engg	Antala D.K.	A.K. Varshney	Packging and Storage Studies on Fresh Guava Fruit and Osmotic-Air Dehydrated Powder of Guava ( <i>Psidium guajava</i> L.)	2010
3	Agricultural Engineering & Technology	Farm Machinery and Power Engineering	Mehta T.D.	R. Yadav	Development and Performance Evaluation of Tractor operated onion Harvester	2011
4	Agricultural Engineering & Technology	Farm Machinery and Power Engineering	Kathiria R.K.	J.B. Savani	Development and Evaluation of Knapsack	2011
5	Agricultural Engineering & Technology	Agricultural Process and Food Engg	Akbari S.H.	A.K. Varshney	Standardization of Drying and Extraction tomato processing waste (Pomace)	2011
6	Agricultural Engineering & Technology	Soil and Water Engineering	Satasiya R.M.	R. Subbaiah	Uben Command Area Planning for Efficient Water Management	2011
7	Agricultural Engineering & Technology	Agricultural Process and Food Engg	Dhamsaniya N.K.	A.K. Varshney	Development and Storage of whey based	2012
8	Agricultural Engineering & Technology	Agricultural Process and Food Engg	Chandegara V.K.	Dr. A.K. Varshney	Design and Development of gel expulsion machine for Aloe vera leaves	2012
9	Agricultural Engineering & Technology	Agricultural Process and Food Engg	Cholera S.P.	Dr. N.C. Patel	Studies on Osmo- freeze Drying of Sapota ( <i>Achras Sapota</i> L.)	2012
10	Agricultural Engineering & Technology	Agricultural Process and Food Engg	Dabhi M.N.	Dr. N.C. Patel	Design and Development of Onion Grader	2012
11	Agricultural Engineering & Technology	Agricultural Process and Food Engg	Sangani V.P.	Dr. N.C. Patel	Enzymatic Pre Treatments on Pigeon Pea for Better Recovery and quality of Dhal	2012
12	Agricultural Engineering & Technology	Soil and Water Engineering	Prajapati G.V.	Subbaiah R.	Response of Bt. Cotton to Irrigation Scheduling and Mulching	2015
13	Agricultural Engineering & Technology	Processing and Food Engineering	Davara P.R.	Varshney A.K.	Optimization pf Processing Parameters For Clarification of Prickly Pear ( <i>opuntia elatior Mill.</i> ) Juice And Storage	2016
14	Agricultural Engineering & Technology	Soil and Water Engineering	Patel R.J.	Rank H.D.	Ddip Irrigation Scheduling of Wheat ( <i>Triticum aestivum</i> L.) Using Canopy Temperature	2016
15	Agricultural Engineering & Technology	Soil and Water Engineering	Vadar H.R.	Subbaish R.	Evaluation of Subsurface Drip Irrigation System in Summer Okra ( <i>Abelmoschus esculentus</i> L.Moench.)	2016
16	Agricultural Engineering & Technology	Soil and Water Engineering	Parmar H.V.	Gontia N.K.	Water Management Planning in Ozat-ii Canal Command Using Remote Sensing And Gis	2016
17	Agricultural Engineering & Technology	Soil and Water Engineering	Wandre S.S.	Rank H.D.	Simulating The Hydrologic Response To Climate Change Using Swat Model	2016
18	Agricultural Engineering & Technology	Bio-Technology	Sanghani Jayeshkumar M.	Dr. B.A. Golakiya	Linkage and QTL Mapping for Blast Resistance in Pearl Millet ( <i>Pennisetum glaucum</i> (L.) R.Br.)	2018
19	Agricultural Engineering & Technology	Bio-Technology	Tulsani Nilam Jethalal	Dr. B.A. Golakiya	Genome and Transcriptome Sequencing of Coriander ( <i>Coriandrum sativum</i> L.) To Reveal its Genome Architecture	2018
20	Agricultural Engineering & Technology	Farm Machinery and Power Engineering	Saunmya Shukla	Dr. R.A Gupta	Design, Development and Performance Evaluation of Groundnut Pod Collector	2018
21	Agricultural Engineering & Technology	Farm Machinery and Power Engineering	Khole Priyanka Rajkumar	Dr. K.K. Jain	Development and Performance Evaluation of Mini Tractor Operated Garlic Harvester	2018
22	Agricultural Engineering & Technology	Renewable Energy Engineering	Joshi Viral P.	Dr. P.M. Chauhan	Development of Field Scale Microalgae Cultivation System for Biofuel Production	2018
23	Agricultural Engineering & Technology	Soil and Water Conservation Engineering	Dwivedi dhaval K.	Dr. G. R.	Study of Rainfall predictive models for junagadh	2018
24	Agricultural Engineering & Technology	Soil and Water Engineering	Patel kamlesh	Dr. N.K. Gontia	Water balance modeling using remote sensing and gis in gir forest	2019
25	Agricultural Engineering & Technology	Soil and Water Engineering	Kelaiya Jainish	Dr. H. D. Rank	Morphometric and Hydrologic Analysis of Bhadar Basin of Gujarat Using Remote Sensing & Gis Techniques	2019
26	Agricultural Engineering & Technology	Farm Machinery and Power Engineering	R.G.Jakasania	R. Yadav	Development of Tractor Operated Automated Inter and Untra Row Weeder	2019
27	Agricultural Engineering & Technology	Farm Machinery and Power Engineering	Gajjar Punil Prabhubhai	Rajvir Yadav	Development & Performance Evaluation of a Tractor Mounted Precision Planter for Onion	2019
28	Agricultural Engineering & Technology	Processing and Food Engineering	Gojija D.K.	Vyash D.M	Studies on effect of gamma irradiation on peanut ( <i>arachis hypogaea</i> L.) Kernels quality and storability	2020
29	Agricultural Engineering & Technology	Processing and food engineering	Khodifad Bhargav	Dhamsaniya N.K	Development of continuous microwave dryer for leafy vegetable	2020
30	Agricultural Engineering & Technology	Soil and Water Engineering	Deepak Kumar	Dr. H. D. Rank	Development of automatic closed canopy chamber for evapotranspiration measurement	2021
31	Agricultural Engineering & Technology	Processing and Food Engineering	HIRPARA NEHA JAYANTILAL	DR. M. N. DABHI	Development of starch based biodegradable plastic	2021
32	Agricultural Engineering & Technology	Renewable Energy Engineering	Varu Jayaben Devshibhai	Dr. P. M. Chauhan	Energy audit for cotton, groundnut and wheat farming in Saurashtra region of Gujarat	2021
33	Agricultural Engineering & Technology	Farm Machinery And Power Engineering	Makwana Ajay Dilipkumar	Dr. P. Mohnot	Development of remote operated sprayer for field crop	2022
34	Agricultural Engineering & Technology	Processing and Food Engineering	Naliapara Viraj Anilbhai	Prof. D. M. Vyas	DEVELOPMENT OF DRY COCONUT DEHUSKING AND DESHELLING MACHINE	2021-2022
35	Agricultural Engineering & Technology	Soil and Water Engineering	Rank Prasang Harji	Dr. R. M. Satasiya	SIMULATING THE WATER FOOTPRINT OF SWEET CORN ( <i>Zea mays</i> L.) CROP RESPONSE TO IRRIGATION WATER MANAGEMENT STRATEGIES USING AQUACROP MODEL	2021-2022
36	Agricultural Engineering & Technology	Farm Machinery and Power Engineering	Vala Vimalsinh Samatbhai	Dr. R. Yadav	DEVELOPMENT AND PERFORMANCE EVALUATION OF REMOTE CONTROLLED MECHATRONIC PRECISION PLANTER	2022-2023
37	Agricultural Engineering & Technology	Processing and Food Engineering	Charan Singh	Dr. N. K. Dhamsaniya	DEVELOPMENT OF ULTRAVIOLET-C IRRADIATION CHAMBER FOR SAPOTA	2022-2023
38	Agricultural Engineering & Technology	Farm Machinery and Power Engineering	Gaadhe Sarmanbhai Karshanbhai	Dr. V. K. Tiwari	DESIGN AND DEVELOPMENT OF TRACTOR DRAWN CARROT CROP HARVESTING MACHINE	2022-2023
39	Agricultural Engineering & Technology	Farm Machinery and Power Engineering	Chavda Shaktisinh Kanjibhai	Dr. K. B. Jhala	DESIGN AND DEVELOPMENT OF HYDRAULIC MOTOR OPERATED BUSH CUTTER	2022-2023
40	Agricultural Engineering & Technology	Farm Machinery and Power Engineering	Sudhir Kumar Singh	Dr. R. K. Kathiria	DEVELOPMENT AND PERFORMANCE EVALUATION OF WALKING TYPE BATTERY OPERATED BOOM SPRAYER CUM WEEDER	2022-2023
41	Agricultural Engineering & Technology	Farm Machinery and Power Engineering	Balas Piyushkumar Rameshbhai	Dr. P. Mohnot	DEVELOPMENT AND PERFORMANCE EVALUATION OF MINI TRACTOR OPERATED AUTOMATED INTER AND INTRA ROW ROTARY WEEDER CUM SPRAYER	2022-2023
42	Agricultural Engineering & Technology	Soil and Water Engineering	Sojitra Manojkumar Arvindbhai	Dr. R. M. Satasiya	BROCCOLI CROP YIELD RESPONSE TO DEFICIT IRRIGATION PRACTICES IN SOILLESS MEDIA UNDER PROTECTED CULTIVATION	2022-2023

43	Agricultural Engineering & Technology	Soil and Water Engineering	Pandya Partharathi Ashokkumar	Dr. N. K. Gontia	DEVELOPMENT OF DROUGHT FORECASTING INDICES AND CROP YIELD MODELING USING REMOTE SENSING AND GIS	2022-2023
44	Agricultural Engineering & Technology	Processing and Food Engineering	Sejani Viraj Mahendrabhai	Dr. N. K. Dhamsaniya	DESIGN AND DEVELOPMENT OF PEANUT FLOUR BASED THABDI PEDA FORMING MACHINE	2022-2023
45	Agricultural Engineering & Technology	Processing and Food Engineering	Shingala Abhishaben Mukeshbhai	Dr. M. N. Dabhi	OZONE APPLICATION IN WHEAT STORAGE	2022-2023
46	Agricultural Engineering & Technology	Processing and Food Engineering	Popalia Chandani Jitendrabhai	Dr. V. K. Chandegara	VALORIZATION OF SWEET ORANGE (Citrus sinensis) AND LIME (Citrus aurantifolia) WASTE AND DEVELOPMENT OF VALUE-ADDED PRODUCTS USING DIFFERENT PROCESSING TECHNOLOGY	2022-2023
47	Agricultural Engineering & Technology	Farm Machinery and Power Engineering	Aswathi K.	Dr. V. K. Tiwari	DESIGN AND DEVELOPMENT OF SELF-PROPELLED LEAFY CROP HARVESTER	2023-2024
48	Agricultural Engineering & Technology	Processing and Food Engineering	Bhuva Sachin Sanatkumar	Dr. N. K. Dhamsaniya	MICROWAVE ASSISTED ENCAPSULATION OF PUFA RICH PEANUT OIL	2023-2024
49	Agricultural Engineering & Technology	Farm Machinery and Power Engineering	Jalu Mayur Vajubhai	Dr. R. Yadav	DEVELOPMENT AND EVALUATION OF SOLAR POWERED REMOTE CONTROLLED SPRAYER	2023-2024
50	Agricultural Engineering & Technology	Processing and Food Engineering	Parmar Arjun Ranmalbhai	Dr. N. K. Dhamsaniya	DEVELOPMENT OF REFRACTANCE WINDOW DRYER FOR PAPAYA PULP	2023-2024
51	Agricultural Engineering & Technology	Soil and Water Engineering	Gojiya Kashyapkumar Maldebhai	Dr. H. D. Rank	SPATIOTEMPORAL ANALYSIS OF SOIL SALINITY AND SOIL MOISTURE MODELLING USING RS AND GIS FOR COASTAL REGION OF DEVBHUMI DWARKA	2023-2024
52	Agricultural Engineering & Technology	Processing and Food Engineering	Joshi Nirav Umeshbhai	Dr. M. N. Dabhi	DEVELOPMENT OF DEHUSKING TECHNOLOGY FOR PSYLLIUM ( <i>Plantago ovata</i> ) SEEDS	2023-2024
53	Agricultural Engineering & Technology	Renewable Energy Engineering	Ramani Maulik Labhubhai	Dr. P. M. Chauhan	DEVELOPMENT AND EXPERIMENTAL INVESTIGATION OF AGRIVOLTAIC GREENHOUSE SYSTEM FOR ENERGY AND CROP PRODUCTION	2023-2024
54	Agricultural Engineering & Technology	Soil and Water Engineering	Vithlani Nipa Sunilbhai	Dr. H. V. Parmar	SOIL MOISTURE MODELLING AND WATER MANAGEMENT IN BHADAR CANAL IRRIGATION COMMAND USING REMOTE SENSING	2023-2024
55	Agricultural Engineering & Technology	Soil and Water Engineering	Hirapara Paraskumar Subhashbhai	Dr. H. D. Rank	SIMULATING THE HYDROLOGICAL BEHAVIOUR OF SIHAN RIVER BASIN UNDER VARIOUS CLIMATE CHANGE SCENARIOS	2023-2024
56	Agricultural Engineering & Technology	Farm Machinery and Power Engineering	Kapil Verma	Dr. R. K. Kathiria	DEVELOPMENT OF TRACTOR OPERATED PNEUMATIC GROUNDNUT POD COLLECTOR	2023-2024
57	Agricultural Engineering & Technology	Renewable Energy Engineering	Kelaiya Sagar Vinodkumar	Dr. P. M. Chauhan	DESIGN AND DEVELOPMENT OF MICROWAVE PYROLYSER	2024-2025
58	Agricultural Engineering & Technology	Farm Machinery and Power Engineering	Delvadiya Nandan Prabudas	Dr. R. K. Kathiria	DEVELOPMENT OF SELF PROPELLED RIDING TYPE CHICKPEA HARVESTER	2024-2025
59	Agricultural Engineering & Technology	Soil and Water Engineering	Baria Sonalben Vechatbhai	Dr. H. D. Rank	IDENTIFICATION OF POTENTIAL GROUNDWATER RECHARGE ZONES FOR GUJARAT STATE	2024-2025
60	Agricultural Engineering & Technology	Processing And Food Engineering	Sapariya Parthkumar Shashikant	Dr. M. N. Dabhi	MODIFICATION IN GRINDING CHAMBER OF COOLING SYSTEM ASSISTED SPICE GRINDING MILL	2024-2025
61	Agricultural Engineering & Technology	Farm Machinery and Power Engineering	Vipal Mansuriya	Dr. R. K. Kathiria	DEVELOPMENT AND PERFORMANCE EVALUATION OF CHILLI TRANSPLANTER	2024-2025
62	Agricultural Engineering & Technology	Processing and Food Engineering	Sabalpara Rinaben Hareshbhai	Dr. S. P. Cholera	DEVELOPMENT OF VALUE ADDED PRODUCTS FROM DRIED RED-FLESH DRAGON FRUIT ( <i>Hylocereus polyrhizus</i> ) POWDER	2024-2025
63	Agricultural Engineering & Technology	Farm Machinery and Power Engineering	Chavda Dipeshkumar Babalal	Dr. T. D. Mehta	OPTIMIZATION OF OPERATIONAL PARAMETERS FOR SPRAYING WITH UNMANNED AERIAL VEHICLE (UAV) ON COTTON AND GROUNDNUT CROP	2024-2025
64	Agricultural Engineering & Technology	Renewable Energy Engineering	Makavana Jagubhai Masaribhai	Dr. P. M. Chauhan	DESIGN AND DEVELOPMENT OF WATER GAS SHIFT REACTOR INTEGRATED WITH BIOMASS GASIFIER FOR HYDROGEN ENRICHED FUEL PRODUCTION	2024-2025
65	Agricultural Engineering & Technology	Farm Machinery and Power Engineering	Lakhani Aanand Laljibhai	Dr. R. K. Kathiria	DESIGN AND DEVELOPMENT OF MINI TRACTOR OPERATED GROUNDNUT DIGGER CUM INVERTER	2024-2025
66	Agricultural Engineering & Technology	Farm Machinery and Power Engineering	Khanpara Brijesh Maganbhai	Dr. T. D. Mehta	DESIGN AND DEVELOPMENT OF TRACTOR DRAWN ONION DIGGER CUM DETOPPER	2024-2025
67	Agricultural Engineering & Technology	Farm Machinery and Power Engineering	Ambaliya Pravinaben Savabhai	Dr. T. D. Mehta	DESIGN AND DEVELOPMENT OF DUAL POWERED MEDIA MIXTURE MACHINE FOR A HORTICULTURAL CROP NURSERY	2024-2025
68	Agricultural Engineering & Technology	Processing and Food Engineering	Devani Bansee Manojbhai	Dr. V. P. Sangani	DEVELOPMENT OF CORN STARCH-BASED BIONANOCOMPOSITES REINFORCED WITH PIGEON PEA HUSK CELLULOSE NANOCRYSTALS	2024-2025
69	Agricultural Engineering & Technology	Soil and Water Conservation Engineering	Dhiraj Kumar	Prof. (Dr.) G. V. Prajapati	ASSESSMENT OF WATER QUALITY STATUS IN THE BHADAR RIVER BASIN USING REMOTE SENSING & GIS	2025-2026
70	Agricultural Engineering & Technology	Soil and Water Conservation Engineering	Ananya Mishra	Dr. H. D. Rank	AN ASSESSMENT OF CLIMATE CHANGE IMPACT ON REFERENCE EVAPOTRANSPIRATION AND RAINFALL FOR GUJARAT	2025-2026
71	Agricultural Engineering & Technology	Soil and Water Engineering	Damor Piyushkumar Adesinh	Prof. (Dr.) G. V. Prajapati	MODELING OF REFERENCE EVAPOTRANSPIRATION USING MACHINE LEARNING TECHNIQUES	2025-2026