



# ANNUAL PROGRESS REPORT

(2020-21)

Volume-11



**COLLEGE OF AGRICULTURAL ENGINEERING AND TECHNOLOGY**

**ANAND AGRICULTURAL UNIVERSITY**

**GODHRA-389001**

**GUJARAT-INDIA**



## INDIAN COUNCIL OF AGRICULTURAL RESEARCH NEW DELHI

### NATIONAL AGRICULTURAL EDUCATION ACCREDITATION BOARD

#### CERTIFICATE OF ACCREDITATION

On the recommendations of the ICAR Peer Review Team, the National Agricultural Education Accreditation Board, ICAR, New Delhi hereby grants accreditation to the **Anand Agricultural University, Anand (Gujarat)** and its following constituent colleges upto March 31, 2021.

- B.A. College of Agriculture, Anand
- Sheth M.C. College of Dairy Science, Anand
- College of Agricultural Engineering & Technology, Godhra
- College of Food Processing Technology & Bio-Energy
- College of International Agri-Business Management Institute
- College of Veterinary Sciences and Animal Husbandry, Anand

The accredited academic programmes are listed overleaf.

November, 2017  
New Delhi

(Narendra Singh Rathore)  
Deputy Director General (Agril. Edn.), ICAR  
and Vice-Chairman, NAEAB

(Trilochan Mohapatra)  
Secretary, DARE & Director General, ICAR  
and Chairman, NAEAB



# ANNUAL PROGRESS REPORT

## (2020-21)

### : Editors:

**Dr. Pankaj Gupta**, Professor & Head, F.M.P.E. Dept.

**Dr. Hardik Sharma**, Assistant Professor, B.E.A.S. Dept.

**Dr. Neeraj Seth**, Assistant Professor, P.F.E. Dept.

**Dr. Gautam J. Kamani**, Assistant Professor, B.E.A.S. Dept.

**Er. Khyati Vyas**, S.R.A., S.W.C.E. Dept.



**COLLEGE OF AGRICULTURAL ENGINEERING AND TECHNOLOGY**

**Anand Agricultural University**

**Godhra- 389001**

**Gujarat-India**





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Prepared by : Dr. Pankaj Gupta  
Dr. Hardik Sharma  
Dr. Neeraj Seth  
Dr. Gautam J. Kamani  
Er. Khyati Vyas

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## ANAND AGRICULTURAL UNIVERSITY ANAND-388 110, GUJARAT



**Dr. K.B. Kathiria**  
Vice Chancellor

Tel. : (O) +91-2692-261273  
Fax : (O) +91-2692-261520  
Email : vc@aau.in

### Message

Contribution of agriculture in the development of Indian economy cannot be denied, though industry has been playing an important role in Indian economy. Engineering is a critical component of agriculture, which helps in overcoming challenges faced for increasing crop production. Agricultural Engineering deals with the tools, techniques, systems and machines for production of agricultural goods and services focusing on engineering skills and innovation that requires a strong multidisciplinary approach to solve agricultural problems concerning the field issues, efficiency of machines, processing and storage of agricultural products, power supplies, use of structures and pollution & environmental issues. Agricultural Engineering can develop and apply appropriate technologies for higher productivity with higher income and lower input costs for agriculture and related industries in a sustainable manner.

College of Agricultural Engineering and Technology, Godhra is making a impressive progress since 13 years. During this period, ten batches of B. Tech. (Agricultural Engineering) and eight batches of Post Graduate Studies (M. Tech. and Ph.D.) with specialization in Soil & Water Conservation Engineering, Irrigation and Drainage Engineering, Farm Power & Machinery Engineering, Processing & Food Engineering and Renewable Energy Engineering have successfully completed their degree programme. The students are making the name of institution forward by doing well in academics, national level examinations, extracurricular activities and in their professional life. The college is also excelling in research and extension activities.

I am confident that the college will emerge and extend its brilliance in the field of agricultural engineering by delivering the solutions to the problems and needs associated with the intervention of agricultural engineering and allied fields and will also provide a dynamic learning experience and opportunity for the students.

I extent my heartiest appreciations to the Principal and Dean along with compilation team and staff of the College of Agricultural Engineering and Technology, Godhra for bringing out their annual progress in form of a pleasant publication.

Date : 04/09/2021

  
(K.B. Kathiria)



**Dr. R Subbaiah**

**Principal & Dean**  
 College of Agricultural Engineering & Technology,  
 Anand Agricultural University  
 Godhra - 389 001

## Message

The year 2020 has been like no other before in living memory, characterized by extraordinary challenges. However, it has also been a year in which we recommitted ourselves to our vision of providing future ready techno-economical and environment friendly solutions to our stakeholders to empower them for tomorrow's world.

The Wuhan Corona pandemic is unprecedented. We realized that “each individual citizen”, tasked with the challenge of keeping the community safe was the frontline of this pandemic - with our brave health care workers being the very last line of defense. As India went into one of the world's largest COVID-19 lockdowns, our fraternity ensured uninterrupted efforts to engage themselves in imparting teaching students online and guiding students distantly. We proactively adopted strategic measures to combat the adverse impacts across our operations, workforce, and communities. We realized that individual actions, collective practices and social phenomenon could severely compromise our fight against this pandemic.

In this new networked world, beyond the functions and domains of their specialization, our students will progressively need to equip themselves with some very important skills: a) To mould themselves as effective leaders to create new networks of partnerships for their organizations to be sustainable, scalable and most importantly survive disruptions and failures; b) to be comfortable comprehending with emerging scientific techniques applied in agriculture sector particularly in big data analytics, IOT, artificial intelligence, cyber-security etc.; c) accepting multi-stakeholder networks and mindset for collaborative ventures and innovativeness in the emerging areas will carve way to overcome the complexity and interconnectedness across sectors; d) Ability to respect diversity and display empathy will be key to building personal credibility. Personal credibility will now be a non-negotiable attribute for leaders;

Faculty members and UG and PG students gained national and international recognition for their outstanding work during this period. We look forward to continuing the momentum towards creative teaching methods, increased research output, and sound knowledge dissemination among stakeholder's domain both in terms of quality and quantity, in the future.

Our progress would not have been possible without the wholehearted involvement and support of all our stakeholders who assiduously work towards accomplishing the vision and mission of the college and help build this institution. On behalf of the Institute, may I extend my sincere thanks to all those who make our success possible: Our knowledgeable and dedicated faculty members, talented students, office staff and distinguished alumni who demonstrate their continuous commitment to the Institute. We also acknowledge with gratitude the support of many other stakeholders, including university authorities, Central and State governments, recruiting organizations, sponsoring organizations and media for reposing faith in the college and our abilities.

Thanking you

**(R Subbaiah)**



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## 1. ABOUT COLLEGE

The College of Agricultural Engineering & Technology was established in the year 2008 by the Government of Gujarat under Vanbandhu Kalyan Yojana situated in the tribal area of middle Gujarat at Godhra. The College campus is situated in the outskirts of Godhra- district headquarters of Panchmahals on Godhra-Dahod national highway. It is 5 km away from the main state transport bus station. The college campus, having a natural ambient, is well occupied by excellent buildings of class rooms, administrative section, academic section, well-established laboratories, conference halls, computer centre, boys and girls hostel, recreation rooms, and staff quarters etc. The campus environment is ideal and conducive to learning. The Godhra is well connected by rail services as well by bus with the rest part of Gujarat. With its prime location, it is easily reachable by buses (directly outside the college) and trains, which make it a very comfortable and easily accessible place.



The College of Agricultural Engineering & Technology was established by the Government of Gujarat under Vanbandhu Kalyan Yojana in the tribal area at Godhra on 9<sup>th</sup> May 2008. Presently the college has six departments namely Soil & Water Conservation Engineering (SWCE), Farm Machinery & Power Engineering (FMPE), Process & Food Engineering (PFE), Renewable Energy Engineering (REE) including two new departments viz. Irrigation & Drainage Engineering (IDE) and Basic Engineering & Applied Sciences (BEAS). These departments have well qualified experienced faculty members and well-equipped laboratories. Some of the facilities the college possesses include a GIS laboratory, good workshop, CAD-CAM lab, modern classrooms, conference room, seminar hall etc. All departments have full access to internet facilities for academic and research purposes. There exist separate hostel facilities for boys & girls, mess facilities for healthy food etc. Academic programs offered by the institute lead to the degrees of B.Tech (Agril. Engg.) and M.Tech (Agril. Engg.) with specializations in SWCE, IDE FMPE, PFE and REE. The undergraduate research and experimentation are being performed based on

practical utility with a blend of preliminary research. The post graduate research focuses on the local need and requirements of agricultural engineering interventions. Outsource projects on various aspects are being conducted to strengthen the R&D activities at this institution. The various technologies in the field of agricultural engineering are continuously being disseminated through radio talks, trainings, Krushi Mela, Krushi Mahotsav etc. The college also has a 20.46 hectare experimental cum instructional farm at Kakanpur, which is 26 km far away from Godhra. The farm is being utilized for experimental research work, field demonstrations, conducting practical classes of UG & PG students, quality seed production and advanced research purposes. The main objective of this college is to produce/provide good quality agricultural engineering expert/man power suitable for R&D, education, government & private sectors, agro-industries, NGOs etc.

### Goals

- To provide Agril. Engg inputs and trained manpower in tribal regions of the state.
- To facilitate progressive farming with enhanced valued production through efficient management & utilization of natural resources such as land, water, vegetation and energy, agricultural mechanization, agricultural processing and post-harvest technology.
- To provide consultancy & advisory services to different Agricultural Industries, Government and Non-Government Institutions with a synergic partnership.
- To prepare highly-skilled, technically sound manpower by starting academic programmes like B.Tech., M.Tech. and Ph.D. utilized for agricultural industries and allied agencies.
- To carry out extensive training and extension activities in the thrust areas keeping in the liaison with the different Government and Non-Government organisations to transfer the benefits to the society.

### Objectives

- To develop and sustain an academic environment conducive to academic and professional excellence at par.
- To provide world-class quality technical education and induce academic, research and enterprising spirit to the youths joining the institute.
- To develop a conducive environment to the technical education and research in need-based new and emerge
- ing technology areas.
- To create a technology savoir-faire campus and to impart value-based education.
- To network with leading national and international institutions, R&D organizations and professional bodies.
- To promote techno-entrepreneurship.
- To promote continuing education programs (CEP) to in-service teachers and working professionals.





- To promote all-around development of students & create a sense of social responsibility.

### **Vision**

- To be a reputable and creditable agricultural engineering college, producing quality graduates at a competitive level in line with the international education philosophy.
- To explore research areas that will significantly contribute to the development of the state of Gujarat and the nation as a whole.
- To develop an environment for personal growth, opportunity, knowledge, exposure, personal attention and career directions in line with our nation's inspiration, this is to build a generation of professionals catering to a knowledge-based economy to meet global needs.
- To explore research areas that will significantly contribute to the development of the nation.

## 2. STAFF POSITION AND FUND UTILIZATION

The staff positions of the College during the year 2020-21 and budget head wise grant allocation and its utilization are given below:

### STAFF POSITIONS

#### The Administrative Structure of the College

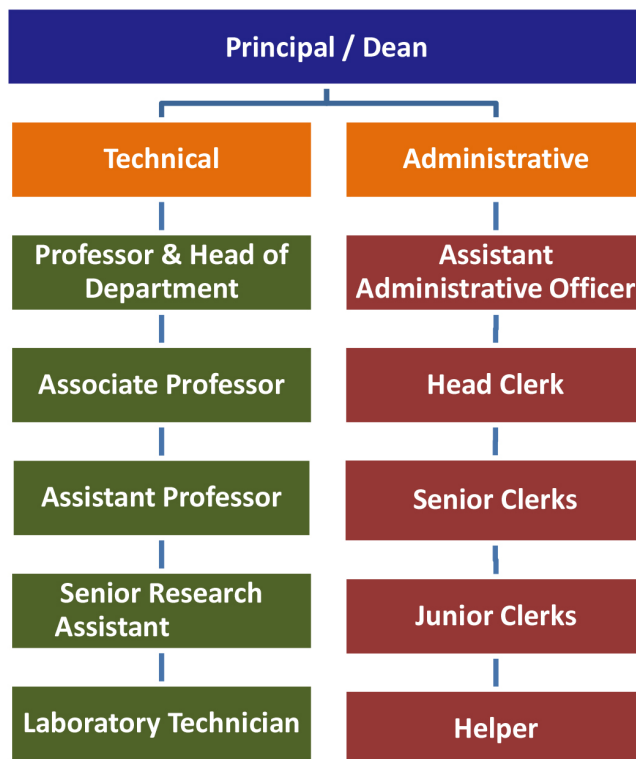


Table 2.1 Overall Staff Position (BH-12975)

Name of the post		Sanctioned	Filled	Vacant
<b>Teaching Staff</b>				
Principal		1	1	0
Professor		2	2*	0
Associate Professor		3	3	0
Assistant Professor	BH-12975	15	12	3
	BH-12987-01	1	1	0
	BH-12993-10	1	1 <sup>s</sup>	0
	BH-12993-11	1	0	1
<b>Non-teaching Staff</b>				
Sr. Research Assistant		6	6	0
Lab Technician		3	2	1



Mechanic	1	1	0
Forman Instructor	1	1	0
Hostel Asst. Warden	1	1	0
Administrative Staff	9	3*	6
Other Supportive Staff	1	0	1
<b>Total</b>	<b>46</b>	<b>34</b>	<b>12</b>

\*One Professor is working on a pool basis at BACA, Anand and one junior clerk is working on a pool basis at MMRS, Godhra, <sup>§</sup> The post is filled by internal arrangement from 12975

**Table 2.2 List of College staff as on 31/03/2021**

Name of Department	Teaching Staff			Non-Teaching Staff
	Professor	Associate Professor	Assistant Professor	
Administration Staff	Dr. R. Subbaiah (Principal & Dean)	-	-	Mr. L. K. Vassaiya
				Mrs. Trupti Damor
				Mr. B.C. Bamaniya <sup>@</sup>
				Mr. Shailesh Patel <sup>+</sup>
				Mr. Anil Bamaniya
Soil & Water Cons. Engg.	Dr. M.L. Gaur*	-	Er. Arvind Kunapara	Er. Khyati Vyas
Farm Machinery & Power Engg.	Dr. Pankaj Gupta <sup>#</sup>	-	Dr. R.C. Salunkhe	Er. Rajesh Godhani
	Dr. R. Swarnakar	-	Dr. K.L. Dabhi	Mr. Nirav Solanki
Processing & Food Engg.	-	Dr. Navneet Kumar	Dr. Neeraj Seth Er. K. R. Jethava	Er. Yagnik Yoganandi
Renewable Energy Engg.	-	Dr. D.K. Vyas	-	Er. Jagdish Chavada
Irrigation & Drainage Engg.	-	-	Dr. M. K. Tiwari	Er. S. J. Pargi
				Er. S. Suryavanshi
Basic Engg. & Applied Sciences	-	-	Er. Kapil Mandloi	Mr. Nilesh Patel
			Dr. B. A. Amin	
			Mrs. Hetal Tanna	Mr. Nilesh Prajapati
			Mr. Hardik Sharma	
			Mrs. Shefali Modi	
			Er. Chirag Jadav	Mr. Rinkesh Talpada <sup>+</sup>
			Er. Sravan Kumar	
Dr. Gautam Kamani				
Hostel	-	-	-	Mrs. Reshma Bhabhor

\*Dr. M. L. Gaur; Professor, SWCE is working at BACA, AAU, Anand, <sup>#</sup>Professor through CAS, <sup>@</sup> Mr. B.C. Bamaniya, the junior clerk is working at MMRS, Godhra, <sup>+</sup> working on a pool basis at CAET, Godhra.



**Table 2.3 Details of college staff as on 31/03/2021**

Sr. No.	Name	Designation	AAU joining date	Joining date in current post	Joining date at CAET
1	Dr. R. Subbaiah	Principal & Dean	22-05-2016	03-03-2017	22-05-2016
2	Dr. R. Swarnakar	Professor	01-01-2010	01-01-2010	01-01-2010
3	Dr. M. L. Gaur	Professor	16-07-2009	16-07-2009	16-07-2009
4	Dr. P. Gupta	Professor	16-05-2011	17-05-2011	16-05-2011
5	Dr. D. K. Vyas	Associate Professor	05-09-2009	17-05-2016	01-09-2016
6	Dr. N. Kumar	Associate Professor	19-06-2012	19-06-2012	19-06-2012
7	Dr. B. A. Amin	Assistant Professor	02-09-2008	02-09-2008	08-03-2019
8	Mrs. H. R. Tanna	Assistant Professor	02-09-2008	02-09-2008	01-03-2020
9	Dr. H. S. Sharma	Assistant Professor	04-09-2008	04-09-2008	04-09-2008
10	Er. K. Mandloi	Assistant Professor	06-09-2008	06-09-2008	06-09-2008
11	Dr. N. Seth	Assistant Professor	18-02-2009	18-02-2009	18-02-2009
12	Mrs. S. K. Modi	Assistant Professor	31-03-2009	31-03-2009	31-03-2009
13	Dr. G. J. Kamani	Assistant Professor	02-06-2009	02-06-2009	01-05-2015
14	Dr. R. C. Salunkhe	Assistant Professor	08-06-2009	08-06-2009	08-06-2009
15	Er. K. R. Jethava	Assistant Professor	18-12-2009	18-12-2009	01-05-2013
16	Er. J. S. Kumar	Assistant Professor	01-05-2012	01-05-2012	01-05-2012
17	Dr. M. K. Tiwari	Assistant Professor	08-05-2012	08-05-2012	08-05-2012
18	Er. C. Jadav	Assistant Professor	01-06-2012	01-06-2012	01-06-2012
19	Er. A. N. Kunapara	Assistant Professor	16-05-2016	16-05-2016	16-05-2016
20	Dr. K. L. Dabhi	Assistant Professor	13-08-2008	09-10-2009	13-08-2008
21	Er. S. J. Pargi	Senior Research Assistant	13-08-2008	13-08-2008	10-11-2010



22	Er. J. J. Chavada	Senior Research Assistant	19-04-2011	19-04-2011	19-04-2011
23	Er. R. S. Godhani	Senior Research Assistant	19-04-2011	19-04-2011	19-04-2011
24	Er. Y. C. Yoganandi	Senior Research Assistant	25-03-2015	25-03-2015	25-03-2015
25	Er. S. Suryavanshi	Senior Research Assistant	04-04-2015	04-04-2015	04-04-2015
26	Er. K. N. Vyas	Senior Research Assistant	18-04-2015	18-04-2015	18-04-2015
27	Mr. N. M. Solanki	Forman Instructor	09-05-2012	09-05-2012	09-05-2012
28	Mr. A. K. Bamaniya	Laboratory Technician	28-05-2009	28-05-2009	28-05-2009
29	Mr. N. K. Prajapati	Laboratory Technician	28-05-2009	28-05-2009	01-06-2013
30	Mr. N. M. Patel	Mechanic	29-12-2009	29-12-2009	29-12-2009
31	Mr. L. K. Vasaiya	Assistant Administrative Officer	29-03-1990	04-02-2017	01-04-2021
32	Mr. B. C. Bamaniya	Junior Clerk	27-01-2009	27-01-2009	01-12-2020
33	Mrs. T. S. Damor	Junior Clerk	31-08-2012	31-08-2012	01-04-2013
34	Mrs. R. V. Bhabhor	Hostel Assistant Warden	02-04-2012	02-04-2012	01-02-2015

**Table 2.4 Department wise Faculty Positions**

Departments	Sanctioned Positions			Filled Positions		
	Professor	Associate Professor	Assistant Professor	Professor	Associate Professor	Assistant Professor
Soil & Water Conservation Engg.	1	-	1	1*	-	1**
Farm Machinery & Power Engg.	1	1	3	1	1@	1+1 <sup>s</sup>
Processing and Food Engg.	0	1	1	0	1	1
Renewable Energy Engg.	0	1	1	0	1	-
Irrigation & Drainage Engg.	-	-	-	-	-	-
Basic Engg. & Applied Sciences	-	-	9	-	-	8
Other Budget head	-	-	3	-	-	2 <sup>#</sup>
<b>Total</b>	<b>2</b>	<b>3</b>	<b>18</b>	<b>2</b>	<b>3</b>	<b>14</b>

Working on pool basis at- \* BACA, Anand, \*\*IDE Dept., #one at SWCE Dept. & one at FMPE Dept.

<sup>s</sup>Working at PFE dept. on a pool basis, @Professor through CAS

**Table 2.5 Faculty Credentials<sup>##</sup>**

Departments	Ph. D.		M. Tech./M.E.		M.Sc./M.Phil.	
	No.	%	No.	%	No.	%
Soil & Water Conservation Engg.	1*	50	1	50	-	-
Farm Machinery & Power Engg.	4	100	-	-	-	-
Processing and Food Engg.	2	66.67	1	33.33	-	-
Renewable Energy Engg.	1	100	-	-	-	-
Irrigation & Drainage Engg.	1	100	-	-	-	-
Basic Engg. & Applied Sciences	3	37.5	3	37.5	2	25
<b>Total</b>	<b>12</b>	<b>63.16</b>	<b>5</b>	<b>26.31</b>	<b>2</b>	<b>10.53</b>

<sup>##</sup> Staff in different Depts. after pooling at CAET, Godhra \* Working on pool basis at BACA Anand

**Table 2.6 Faculty Composition (No. and % of total)<sup>##</sup>**

Department	Professor				Associate Professor				Assistant Professor			
	From Within the state		From Outside the state		From Within the state		From Outside the state		From Within the state		From Outside the state	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Soil & Water Conservation Engg.	-	-	1*	100	-	-	-	-	1	100	-	-
Farm Machinery & Power Engg.	-	-	1+1 <sup>#</sup>	100	-	-	-	-	1	50	1	50
Processing & Food Engg.	-	-	-	-	-	-	1	100	1	50	1	50
Renewable Energy Engg.	-	-	-	-	1	100	-	-	-	-	-	-
Irrigation & Drainage Engg.	-	-	-	-	-	-	-	-	-	-	1	100
Basic Engg. & Applied Sciences	-	-	-	-	-	-	-	-	6	75	2	25
<b>Total</b>	-	-	<b>3</b>	<b>100</b>	<b>1</b>	<b>50</b>	<b>1</b>	<b>50</b>	<b>9</b>	<b>64.29</b>	<b>5</b>	<b>35.71</b>

<sup>##</sup> Staff in different Depts. after pooling at CAET, Godhra, \* Working on a pool basis at BACA Anand,

<sup>#</sup> Professor through CAS

**Table 2.7 Location of Highest Degree Received by the Faculty**

Cadre	Highest degree from the same university	Highest degree from another university within the state	Highest degree from out of the state university	Highest degree from a foreign country
Professor	-	-	2+1 <sup>#</sup>	-
Associate Professor	1	-	1	-
Assistant Professor	2	8	4	-
<b>Total</b>	<b>3</b>	<b>8</b>	<b>8</b>	<b>-</b>
<b>%</b>	<b>15.78</b>	<b>42.11</b>	<b>42.11</b>	<b>-</b>

<sup>#</sup> Professor through CAS





## BUDGETARY OUTLAYS

**Table 2.8 Grants Received and Expenditure by College during the Year**

Grants Received (Rs. in lakhs)					
Particulars	Pay & Allowances	Recurring Contingency	Non-Recurring	Works	Total
Non-plan	-	0.7	-	-	0.7
Plan (State)	407.71	105.67	26.12		539.50
Internal Resources	-	-	-	-	-
ICAR	-	7.05	8.85		15.90
Others	-	19.27	-	-	19.27
<b>Total</b>	<b>407.71</b>	<b>132.69</b>	<b>34.97</b>	<b>0.00</b>	<b>575.37</b>
Expenditure Incurred (Rs. in lakhs)					
Particulars	Pay & Allowances	Recurring Contingency	Non-Recurring	Works	Total
Non-plan	-	0.31	-	-	0.31
Plan (State)	401.48	94.25	21.24		516.97
Internal Resources	-	-	-	-	0
ICAR	-	0.96	1.08		2.04
Others	-	19.26	-	-	19.26
<b>Total</b>	<b>401.48</b>	<b>114.78</b>	<b>22.32</b>	<b>0.00</b>	<b>538.58</b>

**Table 2.9 Internal Resources Generated during the year**

Sr. No.	Particulars	Rs. (lakhs)
1	Farm including dairy, poultry, etc	2.15
2	Students fees	21.09
3	Consultancy	-
4	Hiring out college facilities	0.20
5	Funds raised by Alumni Groups	-
6	Other (specify)	0.03
	<b>Total</b>	<b>23.47</b>

**Table 2.10 Plan Budget Allocations under Different Sub-heads**

Sub-Head	Rs. (lakhs)	Percent
Establishment (pay & allowances)	406.66	75.38
TA	1.05	0.19
Recurring contingency	105.67	19.59
Works	0.00	0.00
Maintenance	-	-
Others (Non-Recurring)	26.12	4.84
<b>Total</b>	<b>539.50</b>	<b>100</b>

**Table 2.11 Annual budgets for Education, Research and Extension Education***All figures in Rs. (lakhs)*

Budget	Resident Instruction		Research		Extension	
	Allocated	Expenditure	Allocated	Expenditure	Allocated	Expenditure
Non-plan	0.70	0.31	-	-	-	-
Plan	519.59	497.49	19.91	19.48	-	-
ICAR	15.90	2.04	0.00	0.00	-	-
Others	19.27	19.26	-	-	-	-
<b>Total</b>	<b>555.46</b>	<b>519.10</b>	<b>19.91</b>	<b>19.48</b>	-	-

**Table 2.12 Summary of Grant Allocation and Utilization***All figures in Rs.*

	Pay & Allow	Recurring	Non-Recurring	Total
Sanctioned	40771000	13269528	3497108	<b>57537636</b>
Utilized	40148450	11477615	2231725	<b>53857790</b>

**Table 2.13 Details of the different budgets of college.**

Sr. No.	Budget Head	Budget Head Details
<b>Plan</b>		
1	12703	Scheme for the award of GAU fellowship for PG studies in various faculties
2	12865	Upgrading of the student facilities at different colleges of AAU
3	12930	Rural entrepreneurship awareness
4	12967	Modernizing the student facilities at different colleges of AAU
5	12967-01	Scheme for fellowship for UG Students of various faculties
6	12967-02	The schemes for strengthening of the office of the Directorate of Students Welfare, Counselling and Placement Cell at AAU
7	12975	Strengthening of College of Agricultural Engineering and Technology
8	12993-10	Advanced centre for research and trainers training on agricultural engineering-based interventions
9	12993-11	Developing a watershed-based conclave for experimental learning at, Kankanpur
10	12987-01	Vocational courses on agricultural engineering and technology
<b>Non Plan</b>		
11	4500	Vice Chancellor office & Registrar section



<b>ICAR</b>		
12	9599-12	Repair renovation and modernization of existing Aruni boys hostel & boys hostel reading room
13	9599-24	Upgradation of examination hall & examination section in CAET at AAU, Godhra
14	9599-25	Upgradation of the auditorium of CAET at AAU, Godhra
15	9599-26	False ceiling work in electrical machines and applied electronics and instrumentation laboratory of CAET at AAU, Godhra
16	9599-27	Modernization of CAD / CAM laboratory of CAET at AAU, Godhra
17	15221	Strengthening & Development of AUs
18	15918	Strengthening & Development of AUs
<b>Other Agency</b>		
19	18273	National Service Scheme at Anand
20	18457-35	ICAR senior research fellowship for post Ph. D.
21	15657	Rural Entrepreneurship (READY)
22	15658	National Talent Scholarship (NTS)
23	15659	National Talent Scholarship (NTS)

Table 2.14 Grant Allocation and Utilization (Budget Head wise)

All figures in Rs.

Sr. No.	Budget Head	Grant Allocation				Grant Utilization				Total Grant Utilized	Percentage Utilization (%)
		Salary	Recurring	Non-recurring / Works	Total Grant Allotted	Salary	Recurring	Non-recurring / Works	Total Grant Utilized		
1	2	3	4	5	6	7	8	9	10	11	
<b>Plan</b>											
1	12703	0	42000	0	42000	0	42000	0	42000	100	
2	12865	407000	80000	0	487000	401253	71424	0	472677	97.06	
3	12930	0	148000	0	148000	0	148000	0	148000	100	
4	12967	0	70000	18000	88000	0	69492	17700	87192	99.08	
5	12967-01	0	22500	0	22500	0	22500	0	22500	100	
6	12967-02	0	60000	0	60000	0	58900	0	58900	98.17	
7	12975	35875000	8800000	2569000	47244000	35342483	7761427	2083377	45187287	95.65	
8	12987-01	1614000	200000	0	1814000	1592973	130711	0	1723684	95.02	
9	12993-10	1649000	380000	25000	2054000	1603576	379931	22900	2006407	97.68	
10	12993-11	1226000	765000	0	1991000	1208165	741110	0	1949275	97.9	
<b>Non-plan</b>											
11	4500	0	70000	0	70000	0	30596	0	30596	43.71	



All figures in Rs.

Sr. No.	Budget Head	Grant Allocation				Grant Utilization				Total Grant Allotted	Salary	Non-recurring / Works	Total Grant Utilized	Percentage Utilization (%)
		Salary	Recurring	Non-recurring / Works	Total Grant Allotted	Salary	Recurring	Non-recurring / Works	Total Grant Utilized					
1	2	3	4	5	6	7	8	9	10	11				
<b>ICAR</b>														
12	9599-12	0	41221	0	41221	0	9000	0	9000	21.83				
13	9599-24	0	52142	176858	229000	0	0	0	0	0.00				
14	9599-25	0	213	8250	8463	0	210	8250	8460	99.96				
15	9599-26	0	450000	0	450000	0	0	0	0	0.00				
16	9599-27	0	61452	0	61452	0	0	0	0	0.00				
17	15221	0	0	700000	700000	0	0	99498	99498	14.21				
18	15918	0	100000	0	100000	0	86714	0	86714	86.71				
<b>Other Agency</b>														
19	18273	0	9000	0	9000	0	7600	0	7600	84.44				
20	18457-35	0	338000	0	338000	0	338000	0	338000	100.00				
21	15657	0	740000	0	740000	0	740000	0	740000	100.00				
22	15658	0	540000	0	540000	0	540000	0	540000	100.00				
23	15659	0	300000	0	300000	0	300000	0	300000	100.00				
	<b>Total</b>	<b>40771000</b>	<b>13269528</b>	<b>3497108</b>	<b>57537636</b>	<b>40148450</b>	<b>11477615</b>	<b>2231725</b>	<b>53857790</b>	<b>93.60</b>				



### 3. ACADEMIC ACTIVITIES

The details regarding the degree programmes offered, academic achievement, category wise students' strength during the year, scholarships awarded to the students, B. Tech. Dissertation projects, M. Tech. theses submitted as well as the details regarding subjects offered during B. Tech. (Agril. Engg.), M.Tech. (Agril. Engg.) and Ph. D. (Agril. Engg.) programmes for the academic year 2020-21 are included in this section.

**Table 3.1 Degree Programmes Offered**

Sr. No.	Degree Programme	Field of Specialization	Duration	Intake Capacity	Year of Starting	
1	<b>Under Graduate Programme</b>					
	B. Tech.	Agricultural Engineering	4 Years	55*	2008	
2	<b>Post Graduate Programme</b>					
	i) M. Tech.	1	Soil and Water Conservation Engineering	2 Years for full time and 3 Years for in-service	Depends upon faculty members available for guidance	2011
		2	Farm Machinery and Power Engineering			
		3	Renewable Energy Engineering			
		4	Processing and Food Engineering			2015
		5	Irrigation and Drainage Engineering			2017
	ii) Ph. D.	1	Soil and Water Conservation Engineering	3 Years for full time and 4 Years for in-service	Depends upon faculty members available for guidance	2011
		2	Farm Machinery and Power Engineering			
		3	Renewable Energy Engineering			
		4	Processing and Food Engineering			2015
5		Irrigation and Drainage Engineering	2017			
3	<b>Vocational Course in Agricultural Engineering (Certification Course)</b>					
	Module 1	Fabrication, repairs and maintenance of Common Farm Machineries	1 Year	20+ 5 (Sponsored)	2012	
	Module 2	Tools and Techniques of Rain Water Harvesting	1 Year	20+ 5 (Sponsored)	2012	

\* Including 5 seats of EWS

**Table 3.2 Intake Capacity & Admitted Students in the Various Courses Offered**

Degree offered	Intake	Admitted
<b>Under Graduate Programmes</b>		
B. Tech. (Agril. Engg.)	55*+ 5 (D to D)	30 + 4 (D to D)
<b>Post Graduate Programmes - M. Tech. (Agril. Engg.)</b>		
Farm Machinery and Power Engineering	08	01
Soil and Water Conservation Engineering	00	01**@
Processing and Food Engineering	03	00
Renewable Energy Engineering	01	00
Irrigation and Drainage Engineering	00	00
<b>Post Graduate Programmes - Ph.D. (Agril. Engg.)</b>		
Farm Machinery and Power Engineering	02	02 + 02**
Soil and Water Conservation Engineering	00	00 + 00
Processing and Food Engineering	02	00 + 00
Renewable Energy Engineering	00	00 + 00
Irrigation and Drainage Engineering	00	00 + 00

\* Including 5 seats of EWS \*\* In-service @ Re-registered

**Table 3.3 Student's Category wise Distribution of New Admissions**

Category	B.Tech.*			M.Tech.			Ph.D.		
	M	F	Total	M	F	Total	M	F	Total
<b>Based on Domicile</b>									
Rural- Gujarat	13 + 2*	1	14+ 2*	1*	-	1*	-	-	-
Urban-Gujarat	07+ 02*	2	9+2*	-	-	-	2*	-	2*
Rural- Other State	3	2	5	-	-	-	-	-	-
Urban- Other State	-	2	2	1	-	1	2	-	2
Foreign	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>23 + 4*</b>	<b>7</b>	<b>30 + 4*</b>	<b>1+1*</b>	<b>-</b>	<b>1+1*</b>	<b>2+2*</b>	<b>-</b>	<b>2+2*</b>
<b>Based on Reservation</b>									
SC Communities	1	-	1	1*	-	1*	-	-	-
ST Communities	1 + 1*	-	1 + 1*	-	-	-	-	-	-
OBC/SEBC	13 + 2*	2	15 + 2*	-	-	-	2*	-	2*
General	2 + 1*	1	3 + 1*	-	-	-	-	-	-
EWS	3	-	3	-	-	-	-	-	-
ICAR	3	4	7	1	-	1	2	-	2
<b>Total</b>	<b>23 + 4*</b>	<b>7</b>	<b>30 + 4*</b>	<b>1+1*</b>	<b>-</b>	<b>1+1*</b>	<b>2+2*</b>	<b>-</b>	<b>2+2*</b>

\* Includes students of D to D

**Table 3.4 Year Wise Passed Out UG and PG Students**

Year <sup>#</sup>	No. of UG Students Passed	No. of PG Students Passed											
		Farm Machinery & Power Engg.		Soil & Water Conservation Engg.		Irrigation and Drainage Engg.		Processing & Food Engg.		Renewable Energy Engg.		Total	
		M.Tech.	Ph.D.	M.Tech.	Ph.D.	M.Tech.	Ph.D.	M.Tech.	Ph.D.	M.Tech.	Ph.D.	M.Tech.	Ph.D.
2012-13	27	-	-	-	-	-	-	-	-	-	-	-	-
2013-14	29	-	-	-	-	-	-	-	-	-	-	-	-
2014-15	25	-	-	03	01*	-	-	-	-	-	-	03	01*
2015-16	28	05	-	03	-	-	-	-	-	-	01*	08	01*
2016-17	34	03	01*	02	-	-	-	-	-	-	-	05	01*
2017-18	51	01	01*	01	-	-	-	02	-	-	-	04	01*
2018-19	42	4+1*	02*	05	-	-	-	02	-	-	-	11+1*	02*
2019-20	39	07	-	08	-	-	-	2+1*	-	01	-	18+1*	-
2020-21	31	01*	-	03	-	01	-	01+01*	-	01*	-	05+03*	-
<b>Total</b>	<b>306</b>	<b>20+02*</b>	<b>04*</b>	<b>25</b>	<b>01*</b>	<b>01</b>	<b>-</b>	<b>07+2*</b>	<b>-</b>	<b>01+01*</b>	<b>01*</b>	<b>54+05*</b>	<b>06*</b>

<sup>#</sup>Data up to March 31<sup>st</sup> of each year \*Shows the number of In-service students

**Table 3.5 Student's Category wise Strength of UG for the Ac. Year 2020-21**

	Category	First Year		Second Year		Third Year		Fourth Year		Total	
		Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
Semester	General	2	2	2	1	12	5	17	0	31	8
	EWS	5	1	9	0	NA	NA	NA	NA	16	1
	SEBC	15	3	17	3	16	2	17	2	65	10
	SC	3	0	3	1	2	1	3	0	12	2
	ST	1	1	3	1	4	1	2	1	9	4
	<b>Total</b>	<b>26</b>	<b>7</b>	<b>34</b>	<b>6</b>	<b>34</b>	<b>9</b>	<b>39</b>	<b>3</b>	<b>133</b>	<b>25</b>
Even	General	2	1	1	1	12	5	16	0	32	7
	EWS	5	1	9	0	NA	NA	NA	NA	14	1
	SEBC	14	2	17	3	16	2	17	2	64	9
	SC	3	0	3	1	2	1	3	0	11	2
	ST	1	1	2	1	4	1	2	1	9	4
	<b>Total</b>	<b>25</b>	<b>5</b>	<b>32</b>	<b>6</b>	<b>34</b>	<b>9</b>	<b>39</b>	<b>3</b>	<b>130</b>	<b>23</b>

**Table 3.6 Discipline wise strength of the M. Tech. Students for the Ac. Year 2020-21**

Sr. No.	Specialization	No. of Students Registered	
		Regular	In-service
1	Farm Machinery and Power Engineering	04	01
2	Soil and Water Conservation Engineering	07	01
3	Irrigation and Drainage Engineering	01	00
4	Processing and Food Engineering	04	01
5	Renewable Energy Engineering	01	01
<b>Total</b>		<b>17</b>	<b>04</b>

**Table 3.7 Discipline wise Strength of Ph. D. Students for the Ac. Year 2020-21**

Sr. No.	Specialization	No. of Students Registered	
		Regular	In-service
1	Farm Machinery and Power Engineering	4	3
2	Soil and Water Conservation Engineering	5	1
3	Irrigation and Drainage Engineering	2	1
4	Processing and Food Engineering	1	4
<b>Total</b>		<b>12</b>	<b>09</b>

**Table 3.8 Student Retention Data for the Year 2020-21**

Programs	Students admitted*				Dropped@				Appeared in the final examination				Percentage Passed			
	M		F		M		F		M		F		M		F	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
UG	23+4*	79.41	7	20.59	07	87.5	01	12.5	24	77.42	07	22.58	24	77.42	07	22.58
PG	03+3**	100	00	00	00	00	00	00	04+3**	87.5	01	12.50	04+3**	87.5	01	12.50

\* D to D, \*\* M.Tech. In-Service M= Male, F= Female

**Table 3.9 Details of Scholarship/ Financial Assistance to Under Graduate Students**

Sr. No.	Types of Scholarship/ Financial Aids	Number of Recipient	Amount (Rs)	Remarks
1	National Talent Scholarship	15	540000	UG-fresh and Renewal scholarship for NTS students
2	UG fellowship	06	22500	Fresh as well as renewal
3	SEBC Scholarship	02	8000	BCK-78 post S.S.C scholarship for girls
		49	441000	BCK-81 A Post metric scholarship for OBC students
4	SC Scholarship	07	91000	BCK-6.1 Scholarship
5	ST Scholarship	05	68400	Umbrella scheme for scholarship
		02	29400	VKY-156 for girls having annual income >2.5
6	Dr.Ambedkar Scholarship	33	297000	Only scholarship for EBC students
7	Minority	02	18000	Only scholarship for Minority students
<b>Total</b>		<b>121</b>	<b>1515300</b>	<b>Fresh as well as Renewal for (UG)</b>

**Table 3.10 Details of Scholarship/ Financial Assistance to Post Graduate Students**

Sr. No.	Types of Scholarship/ Financial Aids	Number of Recipient		Amount (Rs)		Remarks
		M.Tech.	Ph.D.	M.Tech.	Ph.D.	
1	National Talent Scholarship	07		300000		Fresh as well as renewal scholarship PG- NTS students
2	PG fellowship	02		18000		Fresh as well as renewal
3	SEBC Scholarship	01		12000		BCK-81 A post metric scholarship
4	SC Scholarship	01		8000		BCK-6.1 Scholarship
5	ST Scholarship	01		9000		Umbrella scheme for scholarship
		01	01	9000	9000	VKY-156 for Girl ST student having annual income>2.5 lac
		13	01	<b>356000</b>	<b>9000</b>	

**Table 3.11 No. of Students Qualified ICAR-JRF /GATE/ICAR-NET Examinations**

Year	JRF	GATE	SRF	NET
2011-12	1	1		
2012-13	5	3		
2013-14	1	-		
2014-15	-	2		
2015-16	1	2		
2016-17	4	-	2	1
2017-18	-	-	-	-
2018-19	5	-	-	1
2019-20	-	1	-	4
2020-21	-	3	-	-

**Table 3.12 List of B. Tech. (Agril. Engg.) Dissertation Projects Completed**

Sr. No.	Name of the Student	Reg. No.	Project Title	Project Advisor
1	Dodiya Asmitaben Savadasbhai Jotva Parikshitkumar Jethabhai	05-0331-2016 05-0335-2016	Study on the inter- culturing operation in maize crop	Dr. R. Swarnkar
2	Patel Harsh Dipakkumar Patel Niraj Jagadishbhai	05-0295-2015 05-0341-2016	To enhance functionality of portable kitchen air cooler	Er. Kapil Mandloi





3	Rathod Harshil Ghughajibhai Dave Rushi Ashishbhai	05-0347-2016 D5-0358-2017	Mathematical study (analysis) of solar cooker	Er. J. Sravankumar
4	Rank Harsh Bhai Mansukhbhai Rathod Satishkumar Ramanbhai	05-0346-2016 05-0348-2016	Development of multi nozzle reciprocating sprayer	Er. Chirag Jadav

**Table 3.13 List of PG Students Completed Their Thesis**

Sr. No.	Name of the Student	Reg. No.	Project Title	Project Advisor
<b>M.Tech. Thesis (Soil and Water Conservation Engineering)</b>				
1	Deepa Sahu	04-3270-2017	Investigating hydrologic significance of morphometric indicators for selected watersheds of middle Gujarat	Dr. M. L. Gaur
2	Kaushal Gadariya	2050718005	Identification of sites for Groundwater Structures by mapping of Lineaments and stream networks	Dr. G. R. Patel
3	Hirapara Paraskumar Subhashbhai	2050718004	Morphometric Based Prioritization of sub Watersheds for soil and water conservation measures using RS and GIS	Dr. M. M. Trivedi
<b>M.Tech. Thesis (Irrigation and Drainage Engineering)</b>				
1	Nikunj Kumar Chauhan	2050718008	Development and Evaluation of Artificial Intelligence based self executing system for drip irrigation	Dr. M. K. Tiwari
<b>M. Tech. Thesis (Farm Machinery and Power Engineering)</b>				
1	Godhani Rajeshkumar Shivabhai	04-3338-2017	Development of two row fertilizer applicator for side dressing in maize ( <i>Zea mays</i> L.)	Dr. Pankaj Gupta
<b>M. Tech. Thesis (Processing and Food Engineering)</b>				
1	Nayi Pratikumar Navinbhai	2050718007	Development of carrot pomace blended dehydrated sweet corn halwa	Dr. Navneet kumar
2	Vinzuda Sudhirkumar Balubhai	04-3340-2017	Development of instant mix tomato Khaman powder using foam mat dried tomato powder	Dr. Navneet kumar
<b>M. Tech. Thesis (Renewable Energy Engineering)</b>				
1	Chavda Jagdishkumar Jamnadas	04-3337-2017	Drying of Beetroot ( <i>Beta vulgaris</i> L.) using biomass combustor based dryer.	Dr. D. K. Vyas

**Table 3.14 Board of Studies for Faculty of Agril. Engg. & Technology**

Sr. No.	Name of Member	Designation
(a)	<b>Principal &amp; Dean, College of Agril. Engg. &amp; Technology, Godhra</b>	<b>Chairman</b>
(b)	<b>The Head of the Department and Professors teaching subjects assigned to the faculty as member:-</b>	<b>Member</b>
1	Head, Department of Farm Machinery and Power Engineering	
2	Head, Department of Processing and Food Engineering	
3	Head, Department of Soil and Water Conservation Engineering	
4	Head, Department of Renewable Energy Engineering	
5	Head, Department of Basic Engineering and Applied Sciences	
6	Head, Department of Irrigation and Drainage Engineering	
(c)	<b>Director of Research &amp; Dean PG, AAU, Anand / his representative</b>	<b>Member</b>
(d)	<b>Director of Extension Education, AAU, Anand / his representative</b>	<b>Member</b>
(e)	<b>Five Co-opted Members:-</b>	<b>Co-opted Member</b>
1	Dr. T.M.V. Suryanarayana Director, Water Resources Engineering and Management Institute, The Maharaja Sayajirao University of Baroda, Vadodara - 390002	
2	Dr. P. K. Shrivastava Principal and Dean, ASPEE College of Horticulture and Forestry, N. A. U., Navsari - 396 450,	
3	Dr. Raghuraj Singh Scientist, Farm Machinery and Power, ICAR-Directorate of Medicinal & Aromatic Plants Research, Boriavi- 387310, Anand, Gujarat	
4	Dr. S. H. Sengar Head & Associate Professor, Department of Renewable Energy Engineering College of Agricultural Engineering & Technology, ParsiTekra, Dediapada – 393 040, Dist. Narmada, Gujarat	
5	Dr. P. R. Bhatnagar, Head, ICAR-Indian Institute of Soil and Water Conservation, Research Centre, Vasad-388306, Dist., Anand, Gujarat	
(f)	<b>Assistant Registrar (Academic), AAU, Anand</b>	<b>Secretary</b>

**Table 3.15 Board of Faculty, Faculty of Agril. Engg. & Technology**

<b>Sr. No.</b>	<b>Name of Member</b>	<b>Designation</b>
<b>(1)</b>	<b>Principal &amp; Dean, College of Agril. Engg. &amp; Technology, Godhra</b>	<b>Chairman</b>
<b>(2)</b>	<b>Principal, Polytechnic in Agricultural Engineering, Dahod</b>	<b>Member</b>
<b>(3)</b>	<b>The Head of the Department and Professors teaching subjects assigned to the faculty as member:-</b>	<b>Member</b>
	1 Head, Department of Farm Machinery and Power Engineering	
	2 Head, Department of Processing and Food Engineering	
	3 Head, Department of Soil and Water Conservation Engineering	
	4 Head, Department of Renewable Energy Engineering	
	5 Head, Department of Basic Engineering and Applied Sciences	
	6 Head, Department of Irrigation and Drainage Engineering	
<b>(4)</b>	<b>Director of Research &amp; Dean PG, AAU, Anand / his representative</b>	<b>Member</b>
<b>(5)</b>	<b>Director of Extension Education, AAU, Anand / his representative</b>	<b>Member</b>
<b>(6)</b>	<b>Four Assistant Professor and its equivalent from each department</b>	<b>Member</b>
	1 Dr. Hardik S. Sharma, Assistant Professor, Department of Basic Engineering & Applied Sciences, CAET, Godhra	
	2 Dr R. C. Salunkhe, Assistant Professor, Department of Farm Machinery & Power Engineering, CAET, AAU, Godhra	
	3 Smt. S. K. Modi, Assistant Professor, Department of Basic Engineering & Applied Sciences, CAET, Godhra	
	4 Dr. N. Seth. Assistant Professor, Department of Processing and Food Engineering, CAET, AAU, Godhra	
<b>(7)</b>	<b>Assistant Registrar (Academic), AAU, Anand</b>	<b>Secretary</b>

## 4. DEPARTMENTAL ACTIVITIES

Apart from teaching activities, various research and extension activities were also carried out by the different departments during the year 2020-21. These activities are reported here:

### RESEARCH ACTIVITIES

#### Department of Farm Machinery and Power Engineering

Table 4.1 Research Projects Undertaken by the Department

Sr. No.	Project Title	Principal Investigator	Period	
			From	To
1.	Development of tractor drawn simple and low cost combined tillage tool	Dr. R. Swarnkar	2017	2020
2.	Modification of bullock drawn indigenous wooden plough for tribal region of middle Gujarat	Dr. R. Swarnkar	2019	2020
3.	Development and evaluation of mini tractor operated strip till multi crop planter cum fertilizer applicator	Dr. Pankaj Gupta	2013	Patent filed
4.	Design and development of tractor-drawn potato harvester with integrated cart elevator.	Dr. R. C. Salunkhe	2016	Cont.
5.	Development of electric motor operated maize cob dehusker	Dr. R. C. Salunkhe	2017	Cont.
6.	Development of battery operated cutter	Dr. Pankaj Gupta	2017	Cont.
7.	Design and development of mini tractor drawn two row automatic potato planter cum fertilizer applicator	Dr. K. L. Dabhi	2019	Cont.

#### Research Recommendations

##### Recommendation-I:

##### Project- Development of tractor drawn simple and low cost combined tillage tool

A tractor drawn combined tillage tool has been developed by Anand Agricultural University, which is useful for seedbed preparation in a single run in vassa condition of sandy loam soil with required tillage which not only saves time but also manipulate more soil volume as compared to cultivator therefore it is recommended for the use of farmers for seedbed preparation.

ભલામણ:

આણંદ કૃષિ યુનિવર્સિટી દ્વારા ટ્રેક્ટરથી ખેડ કરવા માટેનું નવું સાધન વિકસાવામાં આવેલ છે. આ ઔજાવ ગોરાડુ જમીનમાં વરાપે ખેડ કરવાથી એક જ ફેરામાં વાવેતર લાયક જમીન તૈયાર થઈ બચ છે અને કલ્ટીવેટર કરતા વધારે માટી ખેડાય છે તેમજ સમયની પણ બચત થાય છે. જેથી ખેડુતોને પાકના વાવેતર કરવા માટે જમીન તૈયાર કરવા માટે ઔજાવ વાપરવાની ભલામણ કરવામાં આવે છે.





### Recommendation-II:

#### Project- Modification of bullock drawn indigenous wooden plough for tribal region of middle Gujarat

The farmers are using bullock drawn indigenous plough are recommended to attach triangular shear blade developed by Anand Agricultural University at bottom of the plough boot to reduce time of ploughing (50%) and increase soil volume manipulation (100 %) as compared to traditional indigenous wooden plough. The modified plough opens bigger width furrow than the traditional plough and hence it requires less time and less walk behind the plough to cover unit area for ploughing operation.

#### ભલામણ:

લાકડાના હળથી ખેડ કરતા ખેડુતોને તેમના હળના ચપડા(બુટ)ના તળિયામાં આણંદ કૃષિ યુનિવર્સિટી દ્વારા વિકસાવેલ ત્રિકોણાત્મક આકારવાળું ફાળવો લગાડીને ખેડ કરવાની ભલામણ કરવામાં આવે છે. જેથી દેશી હળ કરતા બમણી માટી ખેડાય છે અને સમય પણ દેશી હળ કરતા અડધો લાગે છે. સુધારેલ હળ વધારે પહોળી ખેડ કરે છે, જેથી ખેડ કરવા પાછળ પ્રતિ વિસ્તાર સમય પણ અડધો લાગે છે. તેથી ખેડુતને હળ પાછળ ચાલવાનું પણ ઓછું થાય છે. આમ, સુધારેલ હળ વાપરવાથી નાના ખેડુતો ઝડપથી અને ગુણવત્તા-સભર ખેડની કામગીરી કરી શકશે.





## Department of Soil & Water Conservation Engineering

**Table 4.2 Research Projects Undertaken by the Department**

Sr. No.	Project Title	Principal Investigator	Period	
			From	To
1.	Conjugate assessment of drip lateral spacing and irrigation regimes on productivity of Rabi Maize	Er. A. N. Kunapara	2017	2020

### Research Recommendations

#### **Project- Conjugate assessment of drip lateral spacing and irrigation regimes on productivity of Rabi Maize**

Farmers of Middle Gujarat Agro-Climatic Zone-3 are recommended to install drip irrigation system in Rabi Maize (GAYMH1) at 60 cm row to row spacing having 40 cm emitter spacing with 4 lph emitter discharge and to operate drip system at 3 day interval as per following table results 56.85 % higher grain yield and 68.35 % fodder yield with 27.83 % water saving than flood irrigated maize.

Month	No of irrigation	Irrigation time
November	6	40 minute
December	10	45 Minute
January	10	45 minute
February	6	50 minute

#### ભલામણ

મધ્ય ગુજરાત ખેત આબોહવાકીય વિસ્તાર-3ના ગોરાડું જમીનમાં શિયાળુ ગુજરાત આણંદ પીળી સંકર મકાઈ-૧ વાવેતર કરતાં ખેડૂતોને ભલામણ કરવામાં આવે છે કે ૪૦ સેન્ટિમીટરના અંતરે ૪ લિટર પ્રતી કલાક પ્રવાહના દરના ડ્રીપર ધરાવતી લેટરલ વચ્ચે ૬૦ સેન્ટિમીટર અંતરે રાખી ટપક પિચત પદ્ધતિ દ્વારા ત્રણ દિવસના અંતરે નીચે કોષ્ટકમાં દર્શાવેલ સમય મુજબ પિચત આપવાથી ૫૬.૮૫ % અનાજ અને ૬૮.૩૫ % સુકેલ રાડનું છૂટા પાણીથી પિચત આપવાની સરખામણીમાં વધુ ઉત્પાદન લઈ ૨૭.૮૩ % પાણીની બચત થાય છે.

માસ	પિચતની સંખ્યા	પિચત આપવાનો સમય
નવેમ્બર	૬	૪૦ મિનિટ
ડિસેમ્બર	૧૦	૪૫ મિનિટ
જાન્યુઆરી	૧૦	૪૫ મિનિટ
ફેબ્રુઆરી	૬	૫૦ મિનિટ



### Department of Processing & Food Engineering

**Table 4.3 Research Projects Undertaken by the Department**

Sr. No.	Project Title	Principal Investigator	Period	
			From	To
1.	Development of rapid measurement system for angle of repose of grains	Dr. Navneet Kumar	2016	Patent filed
2.	Evaluation and modification of sun drying practices for maize cobs	Dr. Neeraj Seth	2017	Cont.
3.	Optimization of Process Parameters for Protein Fortified Kesar Mango Leather	Er. K. R. Jethva	2019	Cont.
4.	Development of perforated storage bin for garlic	Dr. Navneet Kumar	2019	Cont.

### Department of Renewable Energy Engineering

**Table 4.4 Research Projects Undertaken by the Department**

Sr. No.	Project Title	Principal Investigator	Period	
			From	To
1.	Drying of beetroot ( <i>Beta vulgaris</i> L.) and tomatoes ( <i>Lycopersicum esculentum</i> )	Dr. D. K. Vyas	2018	Cont.

### Department of Irrigation & Drainage Engineering

**Table 4.5 Research Projects Undertaken by the Department**

Sr. No.	Project Title	Principal Investigator	Period	
			From	To
1.	Estimation of evapotranspiration using MODIS and Landsat-8 dataset in a selected semi-arid region of middle Gujarat	Dr. M. K. Tiwari	2018	2020
2.	Monthly Forecasts of SPI and SPEI Drought Indices in Middle Gujarat	Dr. M. K. Tiwari	2020	Cont.

#### **Research Recommendation**

#### **Project- Estimation of evapotranspiration using MODIS and Landsat-8 dataset in a selected semi-arid region of middle Gujarat**

Field engineers, scientists, and policy makers of Panam canal command are advised to use Landsat 8 (spatial resolution: 30 m × 30 m) derived LST and crop coefficient (Kc) based algorithm than Mod16 (spatial resolution: 1 km × 1 km) algorithm to estimate actual evapotranspiration (ETc) in Rabi season up to 0.5 acre area. Further, the non-linearity between Mod16/Landsat 8 derived ETc with field based FAO-56 can be reduced using ANN.

## Department of Basic Engineering & Applied Sciences

**Table 4.6 Research Projects Undertaken by the Department**

Sr. No.	Project Title	Principal Investigator	Period	
			From	To
1.	Design & development of dual purpose solar food processor	Er. Sravan Jogunuri	2016	Proposed for patenting
2.	Evaluation of different types of ground wheel for sowing and planting machine	Er Kapil Mandloi	2017	2020
3.	Online Leave Management System	Dr.Gautam Kamani	2018	2020 (Concluded)
4.	Quality assessment of water samples (Pre and post monsoon season) of open wells of CAET campus.	Mrs Shefali Modi	2018	Cont.
5.	Development of ro-protating sprayer for weedicides	Er.Chirag Jadav	2018	Cont.
6.	Gujarat state taluka wise rainfall data repository using text –mining approach	Dr.Gautam Kamani	2020	Cont.

### Research Recommendation

#### **Recommendation-I:**

#### **Project- Evaluation of different types of ground wheel for sowing and planting machine**

Anand Agricultural University has optimized dimensions of ground wheel of tractor drawn sowing machines. The optimized ground wheel was 30 % lighter than the original ground wheel. It is recommended to the scientific community to use this type of design for ground wheels with 12 cm peg length for different sowing machines to reduce the weight without affecting the functionality of ground wheel.

### EXTERNALLY FUNDED PROJECTS

Apart from the departmental Projects, some activities under externally funded projects were also carried out during the year 2020-21.

**Table 4.7 Externally Funded Projects Undertaken by the College**

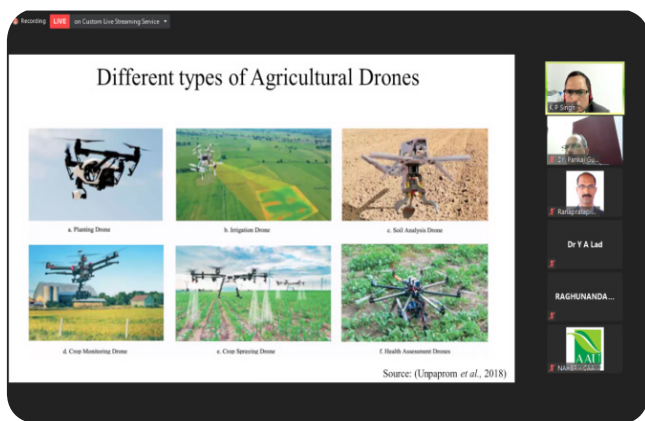
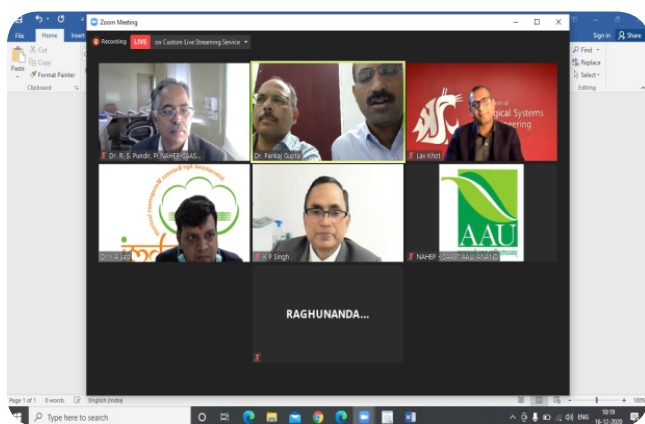
Sr. No.	Project Title	Principal Investigator	Budget Head	Period		Funding Agency
				From	To	
<b>Plan Scheme</b>						
<b>Research (Tribal)</b>						
1.	Advanced Centre for Research Trainers Training on Agricultural Engineering based Interventions	Dr. D. K. Vyas	12993-10	2012	Cont.	ADP
2.	Developing a Watershed Based Conclave for Experimental Learning at Kankanpur	Dr. R. Swarnkar	12993-11	2012	Cont.	ADP
<b>Education</b>						
3.	Strengthening of College of Agricultural Engineering and Technology	-	12975	2013	Cont.	Govt. of Gujarat
4.	Vocational Course on Agricultural Engineering and Technology	-	12987-01	2010	Cont.	Govt. of Gujarat



### EXTENSION ACTIVITIES

**Table 4.8** Extension activities carried out by Department of FMPE

Sr. No.	Detail of activity	Date	Place	Beneficiaries
1.	Webinar on “Paradigm shift in mechanization for futuristic agriculture”	16/12/2020	CAET, Godhra (Online)	-

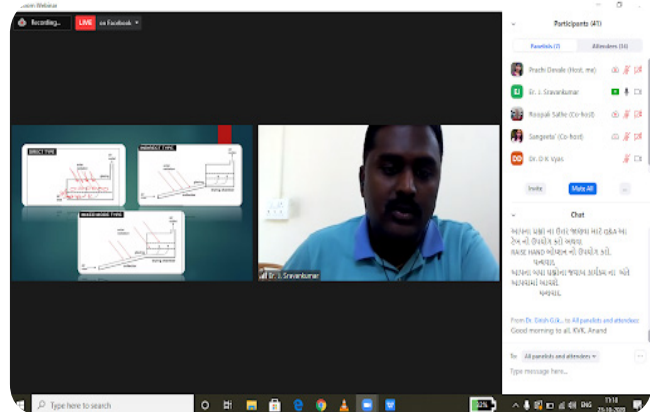


**Webinar on “Paradigm shift in mechanization for futuristic agriculture”**

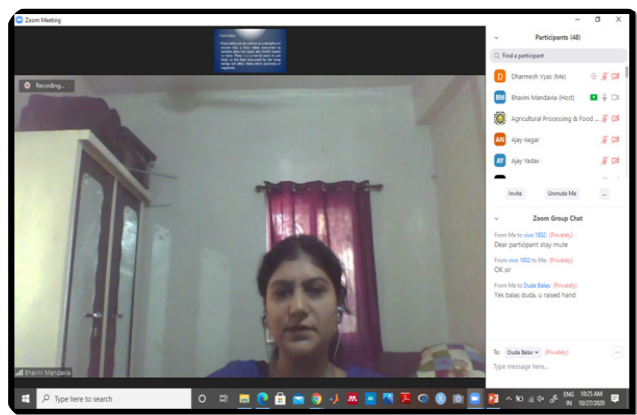
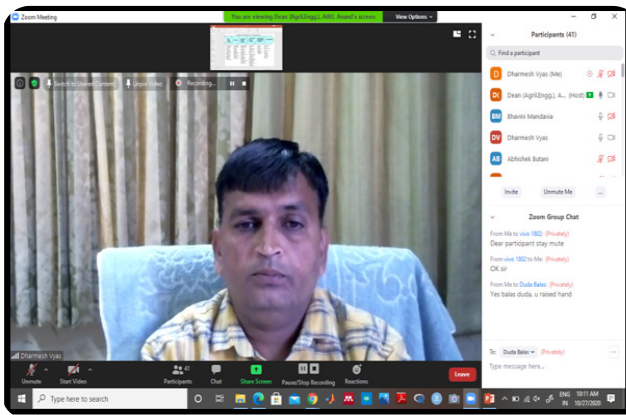
**Table 4.9** Extension activities carried out by the Department of REE

Sr. No.	Detail of activity	Date	Place	Beneficiaries
1.	One day farmers’ training on “Role of solar energy in agriculture”	23/10/2020	CAET, Godhra (Online)	60
2.	One day farmers’ training on “Efficient use of water and energy in agriculture”	29/10/2020	CAET, Godhra (Online)	50
3.	Webinar on “Cost effective and innovative green energy initiatives for futuristic agriculture”	11/11/2020	CAET, Godhra (Online)	750

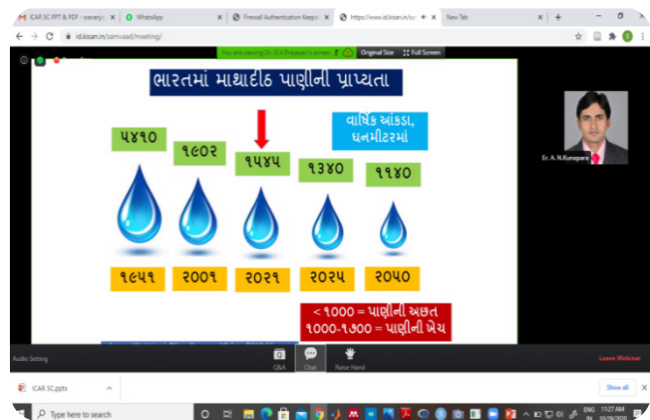
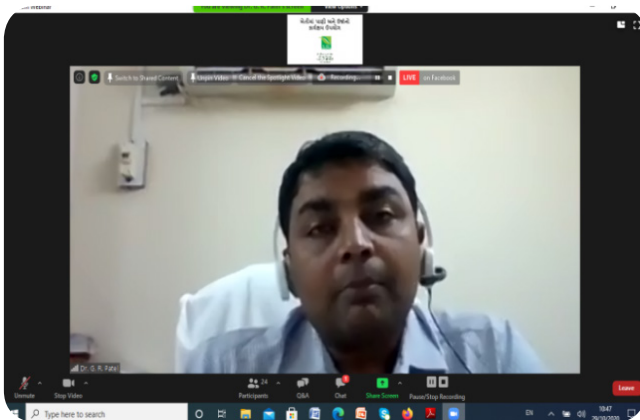




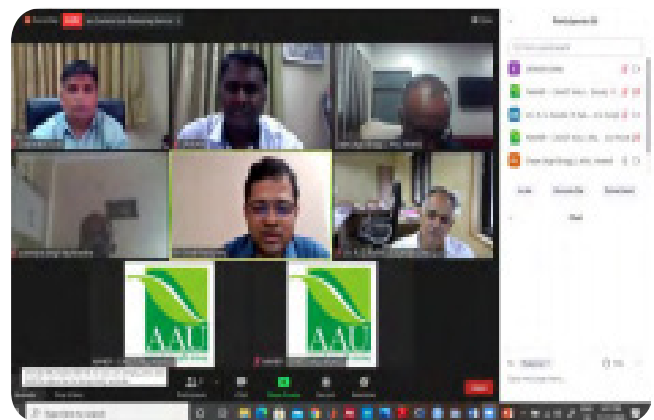
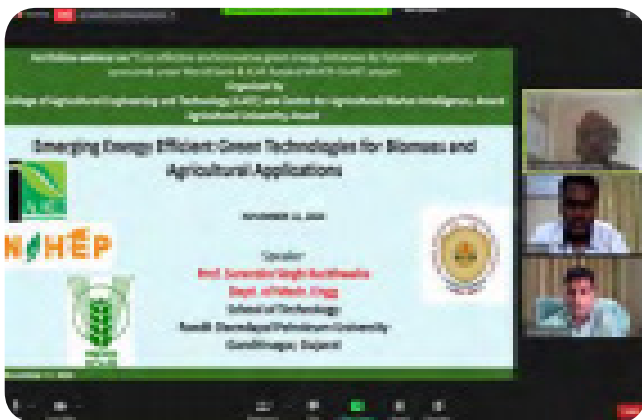
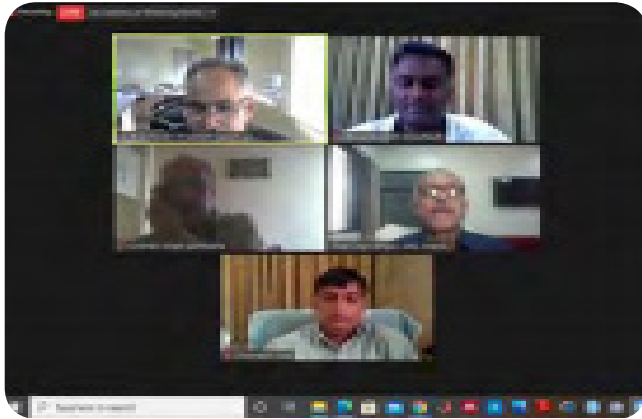
Training on “Role of solar energy in agriculture”



Expert lecture on “Food safety in food processing industry ”



Training on “Efficient use of water and energy in agriculture”



**Webinar on “Cost effective and innovative green energy initiatives for futuristic agriculture”**



## 5. HUMAN RESOURCE DEVELOPMENT

**Table 5.1 Trainings organized by the Faculty**

Sr. No.	Title	Duration	Sponsoring Authority
1.	Online training “Innovative food processing technologies: machines, processes, products and application” organized by Department of Processing & Food Engineering, CAET, AAU, Godhra	7 – 16/09/2020	CAET, Godhra
2.	One day farmers’ training programme on “Role of solar energy in agriculture” organized by Department of Renewable Energy Engineering, CAET, AAU, Godhra	23/10/2020	ADP project entitled “Advanced Centre for Trainers and Training on Agricultural Engineering based Interventions”
3.	One day farmers’ training programme on “Efficient use of water and energy in agriculture” organized by Department of Renewable Energy Engineering, CAET, AAU, Godhra	29/10/2020	ADP project entitled “Advanced Centre for Trainers and Training on Agricultural Engineering based Interventions”
4.	Webinar on “Cost effective and innovative green energy initiatives for futuristic agriculture” organized by Department of Renewable Energy Engineering, CAET, AAU, Godhra	11/11/2020	Centre for Agricultural Market Intelligence, AAU, Anand
5.	One day farmers’ training programme on “Use of farm mechanization to increase farmers income” organized by Department of Farm Machinery and Power Engineering, CAET, AAU, Godhra	23/11/2020	ADP project entitled “Advanced Centre for Trainers and Training on Agricultural Engineering based Interventions”
6.	Webinar on “Paradigm shift in mechanization for futuristic agriculture” organized by Department of Farm Machinery and Power Engineering, CAET, AAU, Godhra	16/12/2020	National Agricultural Higher Education Project- CAAST , Anand Agricultural University, Anand
7.	Online kisan Sanvad on “Benefits of cultivating land by improving traditional plow”	23/12/2020	CAET, Godhra

**Table 5.2 Training/Workshop/Seminar/Symposium/Conference attended**

Sr. No.	Name of Teacher/ Scientist	Participated in	Duration	
			From	To
1.	A. N. Kunapara	National Webinar on “Post COVID-19 agribusiness: challenges and opportunities” organized by Junagadh Agricultural University	13/06/2020	14/06/2020



2.	A. N. Kunapara	National Webinar “On farm skill development through soil and water conservation technology: A buffer against production risk in the face of climate” organized by Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya	25/7/2020	25/7/2020
3.	A. N. Kunapara	Webinar on “Understanding what and how publishing ethics” by Springer nature	14/10/2020	14/10/2020
4.	Dr. D. K. Vyas	Online seminar on “Cost effective and innovative green energy initiatives for futuristic agriculture” jointly organized by College of Agricultural Engineering and Technology Godhra & Centre for Agricultural Market Intelligenece, AAU, Anand.	11/11/2020	11/11/2020
5.	Er. J. J. Chavda			
6.	Dr. R. C. Salunkhe	Online Three week (21 Days) certificate course on “Fundamentals of UAVs” by NAHEP- CAAST for Climate Smart Agriculture and Water Management (CSAWM) centre Mahatma Phule Krishi Vidyapeeth (MPKV), Rahuri, Maharashtra.	15/03/2021	04/04/2021

Table 5.3 Lecture delivered

Sr. No.	Name of Teacher/ Scientist	Lecture Topic	Place	Date
1.	Dr. Mukesh Kumar Tiwari	Application of remote sensing and GIS based techniques in hydrological modeling	Department of Civil Engineering Koneru Lakshmaiah Education Foundation (KLEF) Deemed to be University Andhra Pradesh, India.	12/06/2020
2.	Dr. Pankaj Gupta	Sprayer- A plant protection equipment	National Institute of Plant Health Management Department of Agriculture, Cooperation & Farmers Welfare Ministry of Agriculture & Farmers Welfare, Government of India	28/07/2020
3.	Dr. Mukesh Kumar Tiwari	Applications of RS & GIS in agriculture and soils		04/08/2020
4.	Dr. Navneet Kumar	Introduction of thermal processing	CAET, AAU, Godhra (Online)	07/09/2020
5.	Dr. Navneet Kumar	Thermal processing calculation	CAET, AAU, Godhra (Online)	07/09/2020
6.	Er. K. R. Jethva	Quality changes during dehydration	CAET, AAU, Godhra (Online)	08/09/2020
7.	Dr. Neeraj Seth	Application of drying in food materials	CAET, AAU, Godhra (Online)	08/09/2020

8.	Dr. Navneet Kumar	Drying characteristics of food material	CAET, AAU, Godhra (Online)	08/09/2020
9.	Er. K. R. Jethva	High pressure processing in food industry	CAET, AAU, Godhra (Online)	09/09/2020
10.	Dr. Neeraj Seth	Extrusion processing technology	CAET, AAU, Godhra (Online)	09/09/2020
11.	Dr. Navneet Kumar	Extrusion processing for value addition of byproducts	CAET, AAU, Godhra (Online)	09/09/2020
12.	Er. K. R. Jethva	Advances in food packaging – aseptic packaging	CAET, AAU, Godhra (Online)	10/09/2020
13.	Dr. Neeraj Seth	Soyabean Processing	CAET, AAU, Godhra (Online)	10/09/2020
14.	Dr. Navneet Kumar	Ohmic heating applications in food processing technologies	CAET, AAU, Godhra (Online)	10/09/2020
15.	Er. K. R. Jethva	Advances in food packaging – modified and controlled atmosphere packaging	CAET, AAU, Godhra (Online)	11/09/2020
16.	Dr. Neeraj Seth	Preservation of food materials	CAET, AAU, Godhra (Online)	11/09/2020
17.	Dr. Navneet Kumar	Material balance in food processing	CAET, AAU, Godhra (Online)	11/09/2020
18.	Dr. Neeraj Seth	Energy balance in food processing	CAET, AAU, Godhra (Online)	14/09/2020
19.	Er. Y. C. Yoganandi	Processing of Honey	CAET, AAU, Godhra (Online)	14/09/2020
20.	Dr. Navneet Kumar	Advanced research area in food processing	CAET, AAU, Godhra (Online)	14/09/2020
21.	Er. K. R. Jethva	Hurdle technology in food processing	CAET, AAU, Godhra (Online)	15/09/2020
22.	Dr. Neeraj Seth	Equipment in agro processing industries	CAET, AAU, Godhra (Online)	15/09/2020
23.	Dr. Navneet Kumar	Total quality management in food processing industries	CAET, AAU, Godhra (Online)	15/09/2020
24.	Er. K. R. Jethva	Textural analysis in food processing	CAET, AAU, Godhra (Online)	16/09/2020
25.	Dr. Neeraj Seth	value added processed products	CAET, AAU, Godhra (Online)	16/09/2020
26.	Dr. Navneet Kumar	Colour characteristics in food processing	CAET, AAU, Godhra (Online)	16/09/2020
27.	Er. K. R. Jethva	Importance of fitness to fight against COVID-19	CAET, AAU, Godhra (Online)	19/09/2020
28.	Dr. K. L. Dabhi	આધુનિક ખેતીમાં વપરાતા સાધનોનો પરિચય તેમજ કૃષિ યાંત્રિકીકરણના ફાયદા	Farmers' Training Centre, Dholakuva, Godhra	16/10/2020
29.	Dr. Pankaj Gupta	Precision and automation in farm mechanization	CAET, AAU, Godhra (Online)	17/10/2020



30.	Dr. K. L. Dabhi	કૃષિ યાંત્રિકીકરણનું મહત્વ તેમજ કૃષિ યાંત્રિકીકરણના ફાયદા	Farmers' Training Centre, Dholakuva, Godhra	21/10/2020
31.	Er. Rajesh S. Godhani	To understand the latest Cutting/Harvesting instruments/machines in Agriculture	Farmer's Training Centre, Godhra	21/10/2020
32.	Er. Rajesh S. Godhani	Safety and precautions in operating tractor and farm machinery with their maintenance and services schedule	CAET, Godhra (Online)	23/10/2020
33.	Dr. R. Swarnkar	Tractor design- past and present	CAET, Godhra (Online)	26/10/2020
34.	Dr. K. L. Dabhi	કૃષિ યાંત્રિકીકરણમાં ઉપયોગી જુદા જુદા સાધનો/ઓજરોનો પરિચય તથા કાર્યપદ્ધતિ	Farmers' visit of the FMPE Deptt., CAET, Godhra	26/10/2020
35.	Er. Rajesh S. Godhani	To understanding how to increase income through mechanization in agriculture	Farmer's Training Centre	26/10/2020
36.	Er. A. N. Kunapara	નબળી ગુણવત્તાયુક્ત પાણીથી સિંચાઈ દ્વારા પાકની ઉત્પાદકતામાં વધારો	Farmers' Training (online)	29/10/2020
37.	Dr. K. L. Dabhi	કૃષિ યાંત્રિકીકરણમાં વપરાતા સાધનોની કાર્યપદ્ધતિ તેમજ કૃષિ યાંત્રિકીકરણના ફાયદા	Farmers' Training Centre, Dholakuva, Godhra	10/11/2020
38.	Er. Rajesh S. Godhani	Understanding of high technology in horticulture	Farmer's Training Centre	10/11/2020
39.	Dr. K. L. Dabhi	કૃષિ યાંત્રિકીકરણમાં ઉપયોગી જુદા જુદા સાધનો/ઓજરોનો પરિચય તથા કાર્યપદ્ધતિ	Farmers' visit of FMPE Deptt., CAET, Godhra	11/11/2020
40.	Dr. K. L. Dabhi	કૃષિમાં યાંત્રિકીકરણ થકી ખેડુતોની આવક વધારવાના ઉપાયો	Farmers' Training (online)	23/11/2020
41.	Dr. R. C. Salunkhe	આંતરખેડ, કાપણી અને લણણી માટેના આધુનિક સાધનો	Farmers' Training (online)	23/11/2020
42.	Dr. Pankaj Gupta	જુદા જુદા પાકોની કાપણી માટેના આધુનિક સાધનોનો પરિચય તથા પ્રયોગ	Farmers' Training (online)	23/11/2020
43.	Dr. R. Swarnkar	History and status of wooden plough	Online KISAN Sanvad, FMPE, CAET, Godhra	23/12/2020
44.	Dr. K. L. Dabhi	મકાઈની વાવણી માટે પારંપરિક હળ સાથે ખેડવામાં આવતા પ્લાસ્ટિક યુનિટની કાર્યપદ્ધતિ	Online KISAN Sanvad, FMPE, CAET, Godhra	23/12/2020
45.	Dr. K. L. Dabhi	An introduction on the various equipment and machinery related to farm mechanization	Progressive farmers of M.P. during the visit of FMPE Deptt., CAET, Godhra	28/12/2020
46.	Dr. K. L. Dabhi	કૃષિ યાંત્રિકીકરણનું મહત્વ તેમજ કૃષિ યાંત્રિકીકરણના ફાયદા	ATMA, Dholakuva, Godhra	30/12/2020

47.	Er. Rajesh S. Godhani	Understanding & demonstration on increasing income through mechanization in agriculture	Farmer's Training Centre	31/12/2020
48.	Dr. K. L. Dabhi	મકાઈની વાવણી માટે વપરાતા સાધનોનો તેમજ મકાઈના પાકા ડોડાઓમાંથી ઠાણા છૂટા પાડવા વપરાતા સાધનોનો પરિચય અને કાર્યપદ્ધતિ	Farmers' Training Centre, Dholakuva, Godhra	07/01/2021
49.	Dr. D. K. Vyas	Biomass energy conversion techniques for energy application	National webinar on "Agriculture residue and waste utilization for energy generation" organized by JAU, Junagadh	16-17/03/2021
50.	Er. Rajesh S. Godhani	Measures to increase income through mechanization and also importance of women in agriculture	Farmer's Training Centre	17/03/2021
51.	Dr. K. L. Dabhi	કૃષિ યાંત્રિકીકરણનું મહત્વ અને વિવિધ ખેતી કાર્યો કરવા માટે વપરાતા સાધનો તેમજ ઓખરોનો પરિચય	Farmers' Training Centre, Dholakuva, Godhra	18/03/2021
52.	Er. Rajesh S. Godhani	Courses running in state agricultural universities and importance of mechanization in agriculture	Farmer's Training Centre	22/03/2021
53.	Er. K. N. Vyas	વિવિધ સૂક્ષ્મ સિંચાઈ પદ્ધતિઓનો પરિચય	ATMA, Dholakuva, Godhra	22/03/2021
54.	Dr. K. L. Dabhi	મકાઈના વાવેતર માટે જમીન તૈયાર કરવા તેમજ વાવણી માટે ઉપયોગમાં લેવાતા જુદા જુદા સાધનોનો પરિચય અને કાર્યપદ્ધતિ	Farmers' Training Centre, Dholakuva, Godhra	23/03/2021

#### 5.4 Radio/TV Talks

Sr. No.	Name of Teacher/Scientist	Topic	Place	Date
1.	Dr. K. L. Dabhis	કોરોના કાળમાં ખેતીના સાધનો અને ઓખરોની સાર સંભાળ	AIR, Godhra	15/06/2020
2.	Er. K. N. Vyas	ખેત તલાવડીનું મહત્વ	AIR, Godhra	22/07/2020
3.	Er. K. N. Vyas	છત દ્વારા વરસાદી પાણીનો સંગ્રહ	AIR, Godhra	29/01/2021
4.	Er. R. S. Godhani	આધુનિક ખેત ઓખરોથી ખેતીમાં થતા હાચદાઓ	AIR, Godhra	08/02/2021





## 6. RESEARCH PUBLICATIONS AND AWARDS

This section deals with the achievements of the CAET staff in terms of publications of research papers, books, chapters, bulletins, etc. and the awards, patents etc. received due to their excellent work.

### 6.1 Research Papers Published- National

- 1 Dabhi K.L., Salunkhe R.C., Swarnkar R. and Godhani R.S. (2020). Development, performance evaluation and comparative study of a low cost electric motor operated maize sheller. *Multilogic in Science*, 10(34) : 1033-1036.
- 2 Parmar S.H. and Tiwari M.K. (2020). Crop water requirement (ETc) of maize crop of Panchmahal region of Gujarat. *The Pharma Innovation Journal*, 9(9): 281-286.
- 3 Popalia C. and Kumar N. (2021). Effect of temperature and processing time on physico-chemical characteristics in hot water blanching of sweet corn kernels. *Journal of Institution of Engineers (India): Series A (Springer)*, 102: 163–173.
- 4 Jethva K. R., Sutar R. F., Kumar N. and Vyas D. K. (2021). Effect of whey protein on sun dried protein enriched kesar mango leather. *Journal of Pharmacognosy and Phytochemistry*, 10(2): 824-830.

### 6.2 Research Papers Published- International

1. Barda D.B., Chavda J.J. and Antala D.K. (2020). Effect of polyethylene bag on shelf life of spota using modified atmospheric packaging (MAP) system. *Green Farming*, 11(2 & 3): 118-124.
2. Kumar N., Kachhadiya S. and Nayi P. (2020). Storage stability and characterization of biochemical, rehydration and colour characteristics of dehydrated sweet corn kernels. *Journal of Stored Products Research*, 87: 1-9.
3. Rajani N.V., Tiwari M.K. and Chinchorkar S.S., (2020). Long-term trend analysis of rainfall using hybrid Discrete Wavelet Transform (DWT) based Mann-Kendall tests in central Gujarat region, India. *Mausam*, 71 (2): 209-224.
4. Chandel N.S., Chakraborty S.K., Rajwade Y.A., Dubey K., Tiwari M.K. and Jat D. (2021). Identifying crop water stress using deep learning models. *Neural Computing and Applications*, 33: 5353–5367.
5. Patel S.K., Bhimani J. B., Yaduvanshi B.K. and Gupta P. (2021). Optimization of the design and operational parameters of planter for vegetable pigeon pea (*Cajanus cajan* L. Millsp.) seed. *Inmateh-Agricultural Engineering*, 63 (1): 326-334.
6. Sutariya S., Hirapara A., Meherbanali M., Tiwari M.K., Singh V. and Kalubarme M. (2021). Soil moisture estimation using Sentinel-1 SAR data and land surface temperature in Panchmahal district, Gujarat State. *International Journal of Environment and Geoinformatics*, 8(1): 65-77.
7. Sutariya S., Hirapara A. and Tiwari M.K. (2021). Estimation of actual evapotranspiration in Panam canal command using remote sensing and geographical information system (GIS). *International Journal of Environment and Geoinformatics*, 8(2):193-199.



### 6.3 Research Papers Presented- National

1. Vyas D. K. (2021). Biomass energy conversion techniques for energy application. A paper presented in the National Webinar on “Agriculture Residue and Waste Utilization for Energy Generation” organized by Junagadh Agricultural University, Junagadh held Online during 16-17 March, 2021.
2. Jethva K. R. and Singh D. (2020). To study the drying characteristics of drumstick leaves (*Moringa Olefera*) powder. A paper presented in National webinar on “Agriculture and Food during Covid-19” in 1 st National webinar organized by Society for World Environment, Food and Technology (SWEFT), Meerut (UP) held Online on 30 May, 2020.

### Research Papers Presented- International

Sutariya S., Hirapara A., Meherbanali M., Tiwari M.K., Singh V. and Kalubarme M. (2021). Sentinel-1 SAR data analysis for soil moisture estimation in Godhra taluka, Panchmahal district. Proceedings of Virtual International Conference on Statistical Tools and Techniques for Research Data Analysis (ICSTRDA) held during 21 & 22 January. Proceedings of ICSTRDA, 124-130.

### 6.4 Popular Articles

ગોઘાણી આર. એસ., ડાભી કે. એલ., સાલુંજે આર. સી. તથા ચાવડા જે. જે. (૨૦૨૧-માર્ચ). પાકોની કાપણી માટેના આધુનિક સાધનો અંગેની જાણકારી. કૃષિજ્ઞાન, ૮(૬૨૯) : ૨૪-૨૬.

### 6.5 patents and Awards

#### Patents published

1. Gupta P., Swarnkar R., Patel S.K., Salunkhe R.C., Patel N.M. and Yaduvanshi B. K. (2021). Pneumatic seed metering device. Application No. 202021053177 A, published on 26.02.2021
2. Kumar N., Seth N., Kumar S., Mehra V., Gupta P., Subbaiah R. and Yaduvanshi B. K. (2021). Apparatus and method for measuring angle of repose. Application No. 202021045467 A, published on 26.02.2021.

#### Awards

Jethva K. and Cholera S. received Uttam Lekh' awarded by Anand Agricultural University, Anand for the article “જૂન પાકોને પેકેજીંગ કરવાની આધુનિક પદ્ધતિ અને તેજું મહત્વ” published in ‘Krish Govidhya’.



## 7. STUDENTS' WELFARE ACTIVITIES

The brief details about the students' amenities, Gymkhana, NSS and other co-curricular activities carried out during the year have been reported in this section.

### 7.1 HOSTEL FACILITIES

College of Agricultural Engineering and Technology (CAET), Anand Agricultural University (AAU), Godhra has excellent residential facilities for all the students admitted to the various degree programmes. There are three hostels, two for boys and one for girls. CAET hostels provides conducive atmosphere for the overall personality development of the students. All students maintain tranquil academic atmosphere, helping each other to achieve distinction. Hostel administration is managed by a Chief Rector and a team of Rectors/Asst. Rectors drawn from the faculty and are appointed by the Director of Students Welfare on a tenure basis. Hostel Welfare committee headed by the Principal and Dean of the college is responsible for major policy decisions with respect to the hostel administration. Students have representation on the administrative body. Hostel office has full-fledged supporting staff/other workers.



**Dr. A.P.J. Abdul Kalam Hall of Residence (Boys)**



**Aruni Boys Hostel**



**Aditi Girls Hostels**

### Dining Halls

There are two separate dining halls each for boys and girl students located at their respective hostel premises. The Students cooperative mess is completely operated/run by Students on 'no profit – no loss' basis and cater to the taste of students. Mess representatives are nominated from the students and Asst. Rector(s) and/or Rector supervise for the smooth functioning of the mess.



**Dining Area (seating capacity of 96 in a go)**



**Kitchen Area**

## Round the Clock Security

To provide round the clock security in the campus as well as hostels a batch of security personnel, which include security in charge, remains deployed around the clock in the campus.

## Hostel Reading Room

The hostel provides facilities with modern amenities for students. The hostel is equipped with a well-stock reading room which aims at further enhancement of self-study.



## Recreational Facilities

The hostels are well equipped with facilities for recreation viz. television with cable arrangement, computers with internet facility and indoor games.

### Facilities available in the hostels

- Hygienic food facility (mess facility) provided through well equipped kitchen and dining hall.
- 24 hours drinking water facility through Reverse Osmosis plants on each floor at all hostels and mess.
- Anti-ragging committee and anti-ragging squad to maintain “Zero Ragging Zone”.
- WLAN facility for internet
- Recreation room
- Reading room
- Gymnasium
- Television room
- Indoor and outdoor sports facilities
- Security guards (round the clock security at all hostels)
- CCTV cameras at strategic point
- All basic facilities including geyser, racks, cots, mattress, ceiling fan, etc.





**Solar Water Pumping System**



**Solar Water Heating System**



**Drinking water with RO facility**



**Electric Geyser for water heating**



**TV Hall**



**Gym**



**Badminton Court**



**Play Ground**

**Table 7.1 Hostel Blocks & Capacity**

Block Name	Block	Floor	No. of Rooms	Single/Double/Triple Occupancy rooms	Total Capacity
Dr.A.P.J. Abdul Kalam Hall of Residence	1	G	12	Triple-8	24
		1	12	Double-10 (Guests Rooms)	20
		2	12	Triple-12	36
		3	12	Triple-11	33
				<b>Sub-Total</b>	<b>113</b>
Aruni Boys' Hostel	A	G	12	Double-9	18
		1	12	Double-12	24
	B	G	12	Double-12	24
		1	12	Double-12	24
	C	G	12	Double-12	24
		1	12	Double-12	24
			<b>Sub-Total</b>	<b>138</b>	
Aditi Girls' Hostel	1	G	12	Double-09	16
		1	12	Double-09	18
				<b>Sub-Total</b>	<b>34</b>
			<b>Total</b>	<b>285</b>	

**Table 7.2 Hostel Administration**

Chief Rector	CAET Hostels (Boys & Girls)	Dr.R.Subbaiah, Principal and Dean, CAET, Godhra Email id: <a href="mailto:dean.caet@aaui.in">dean.caet@aaui.in</a>
Rector	CAET Hostels (Boys & Girls)	Dr. Neeraj Seth, Assistant Professor, Dept. of Processing and Food Engineering, CAET, Godhra Email id: <a href="mailto:neeraj.caet@aaui.in">neeraj.caet@aaui.in</a>
Asst. Rector	Dr. A.P.J Abdul Kalam Hall of Residence (Boys)	Er. J. Sravankumar, Asst. Professor (Electrical Engineering), Dept. of Basic Engineering and Applied Sciences, CAET, Godhra Email id: <a href="mailto:sravanjogunuri@aaui.in">sravanjogunuri@aaui.in</a>
Asst. Rector	Aruni Boys Hostel	Er. Arvind N. Kunapara, Asst. Professor, Dept. of Soil and Water Conservation Engineering, CAET, Godhra Email id: <a href="mailto:ankunapara@aaui.in">ankunapara@aaui.in</a>
Asst. Rector	Aditi Girls Hostel	Mrs. Hetal Tanna, Dept. of Basic Engineering and Applied Sciences, CAET, Godhra Email id: <a href="mailto:het1008@aaui.in">het1008@aaui.in</a>
Asst. Warden	Aditi Girls Hostel	Mrs. Reshma V. Bhabor, CAET, Godhra Email id: <a href="mailto:rvbhabor@aaui.in">rvbhabor@aaui.in</a>



## 7.2 STUDENTS REPRESENTATIVE COUNCIL

**Table 7.3 Staff Advisors of Students Representative Council for Year 2020-21**

Sr. No.	Activities	Name & Designation
1	President	Dr. R. Subbaiah, Principal & Dean
2	Chairman	Dr. R. C. Salunkhe, Asst. Prof., Deptt. FMPE
3	Co-Chairman & Literary Activities	Dr. Hardik Sharma, Asst. Prof., Deptt. BEAS
4	Cultural activities	Mrs. Hetal Tanna, Asst. Prof., Deptt. BEAS
5	College Magazine Activities	Er. Sravankumar, Assi. Prof., Deptt. BEAS
6	Indoor games	Dr. Neeraj Seth, Asst. Prof., Deptt. APE
7	Outdoor games & Gymkhana	Er. Arvind Kunapara, Asst. Prof., Deptt. SWCE
8	Athletic, Adventure activities & Treasurer	Dr. K.L.Dabhi , Asst. Prof., Deptt. FMPE

**Table 7.4 Student's representatives of Students Representative Council for Year 2020-21**

Sr. No.	Activities	Name of the students	Sem.
1.	General Secretary	Parmar Harishachandra Hemubhai	7 <sup>th</sup>
2.	Lady's Representative	Rathod Renukaben Kishorbhai	3 <sup>rd</sup> , M.Tech
3.	CR, Final Year & College Magazine	Sunil Dangi	7 <sup>th</sup>
4.	CR, Final Year & Cultural Events	Kuldeep	7 <sup>th</sup>
5.	CR, Third Year & Outdoor Games	Godhani Hirenabhai Ashvinbhai	5 <sup>th</sup>
6.	CR, Third Year & Literary Events	Donga Anshkumar Pravinbhai	5 <sup>th</sup>
7.	CR, Second Year & Indoor Games	Anup Soni	3 <sup>rd</sup>
8.	CR, Second Year & Athletic	Tushar Rathore	3 <sup>rd</sup>
9.	CR, First Year & Reading , TV Room	Nisarg Dedhiya	1 <sup>st</sup>
10.	CR, First Year & Adventure activities	Raushan Kumar Niti	1 <sup>st</sup>
11.	Class Representative, PG	Pratik Kumar Sai	3 <sup>rd</sup> , M.Tech

### ➤ Sports and Cultural Activities

Due to Corona-19 Pandemic, no sports and cultural events/activities were organized at college and University level during the report period except following activities/celebrations:

**Table 7.5 Different Events Celebration during year 2020-21**

Sr. No.	Different Events Celebration	Date
1.	Independence Day	15/08/2020
2.	Republic Day	26/01/2021



## 1. 74<sup>th</sup> Independence Day

The College of Agricultural Engineering & Technology, AAU, Godhra celebrated the 74<sup>th</sup> Independence Day of our Beloved Country, India by following the rules of social distancing in Covid-19 pandemic. The national flag was hosted by Dr. R. Subbaiah, Principal and Dean, CAET, Godhra followed by National Anthem and Zanda geet.

In his speech, Dr. R. Subbaiah, highlighted the achievements of the college in field of Academic and Research. He congratulated to the staff members for starting the process of patenting for three technologies developed by the college. He also admired all staff members for conducting online lectures of UG and PG students and conducting on line internal examination by using various e-platforms.

During the program, a standing ovation was given to front line Corona warriors including Doctors, Nursing staff, Paramedical staff, Police, Administrative staff, health and sanitization workers, to pay them respect and express the gratitude about them. The function ended with vote of thanks followed by National song “Vande Mataram”. All required facilities were arranged by Dr. R. C. Salunkhe (Asst. Prof. & Chairman, SRC) and Er. K. R. Jethva, (Asst. Prof. & NSS Program Coordinator) and Mr. Nilesh Patel, (Mechanic).





## 2. 72<sup>nd</sup> Republic Day

The College of Agricultural Engineering & Technology, AAU, Godhra celebrated the 72<sup>nd</sup> Republic Day by following the rules of social distancing in Covid-19 pandemic. The national flag was hosted by Dr. R. Subbaiah Sir, Principal and Dean followed by National Anthem and Zenda geet.

In his speech, Dr. R. Subbaiah, remembered our great freedom fighters and revolutionaries for their contribution for getting freedom and making our nation as democratic country. Dr. Neeraj Seth, Assistant Professor, Deptt. of PFE delivered his vote of thanks to all who were present in the function and who were taken efforts and helped to make this function successful. The function ended National song “Vande Mataram”. The program was arranged by SRC and NSS sections of the college. All required facilities were arranged by Dr. R. C. Salunkhe (Asst. Prof. & Chairman, SRC) and Dr. Neeraj Seth (Asst. Prof. & PFE Deptt.) and Mr. Nilesh Patel, (Mechanic) with other supporting Staff.



## 7.3 NATIONAL SERVICE SCHEME

Various activities oriented towards service of the nation were carried out under the NSS at CAET, AAU, Godhra. Some of the events are elaborated in details followed by a list of total events conducted by the NSS unit of CAET, AAU, Godhra.

**Table 7.6 NSS Activities / Events Celebration during Year 2020-21**

Sr. No.	Name of activity / event	Date
01	International Yoga Day	21 June, 2020
02	Observance of Sadbhavna Divas	20 August, 2020
03	Online lecture on “Importance of Fitness to Fight Against COVID-19”	19 September, 2020
04	Poster Competition on the occasion of Gandhi Jayanti	02 October, 2020
05	Webinar on “Making Health and Nutrition a Priority During the COVID-19 Pandemic”	03 October, 2020
06	Observance of Agricultural Education Day	03 December, 2020

## 1) International Yoga Day

The College of Agricultural Engineering and Technology, AAU, Godhra celebrated 6th International Yoga Day as per guidelines provided by Ministry of AYUSH, Government of India on 21st June, 2020 with theme of “Yoga@Home and Yoga with Family”. All Faculties members and students performed yoga@home with their family. The programme was framed and circulated by Er. K. R. Jethva, NSS programme Officer as per guidelines provided by Ministry of AYUSH and under the guidance of Dr. R. Subbaiah, Dean, CAET, Godhra.



## 2) Observance of Sadbhavna Divas

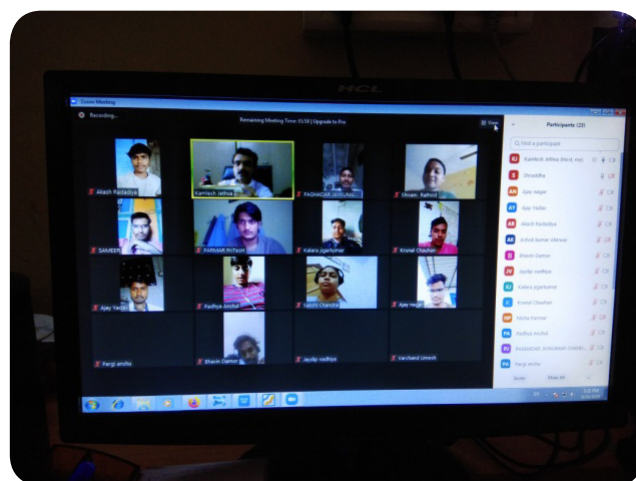
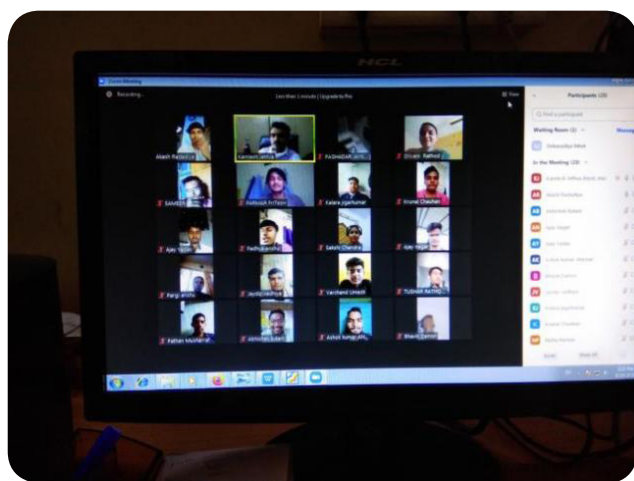
The birth anniversary of Prime Minister Late Shri Rajiv Gandhi on 20<sup>th</sup> August is observed as ‘Sadbhavna Divas’ every year. The theme of Sadbhavana is to promote national integration and communal harmony among people of all religions, languages and regions. The idea behind observance of sadbhavana diwas is to eschew violence and to promote goodwill among the people. In context to this, a ‘Sadbhavana Pledge’ is organized by NSS Unit of College of Agricultural Engineering and Technology, AAU, Godhra. Faculty members/staffs participated in pledge by following rules of social distancing and mask in the current situation of COVID-19 pandemic.





### 3) Online lecture on “Importance of fitness to fight against COVID-19”

A online awareness lecture on “Importance of Fitness to fight against COVID-19” was organized by NSS unit of CAET, Godhra on 19/09/2020 to aware the students about importance of fitness in their routine life. NSS volunteers of this college actively joined this online lecture by participation from their home. The programme was started with ‘Fitness Pledge’ taken by all NSS Volunteers and after that, Er. Kamlesh Jethva delivered a lecture on importance of fitness in current situation of Covid-19 pandemic and interact with student also.



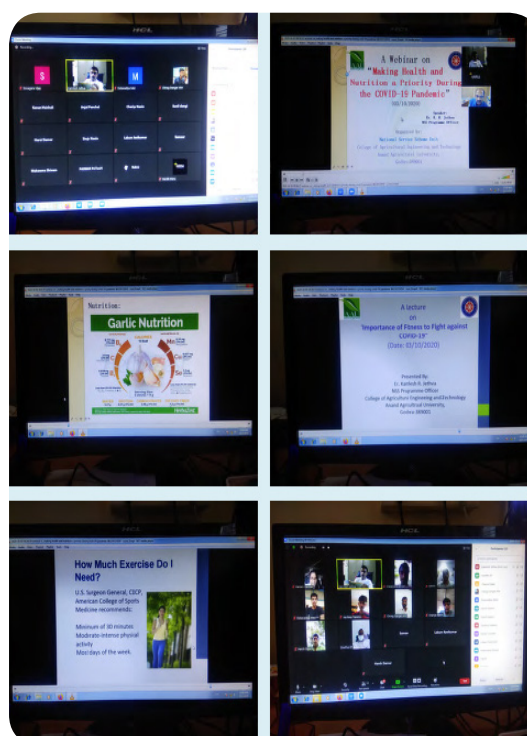
### 4) Poster Competition organized on the Occasion of Gandhi Jayanti

The NSS Unit of CAET, AAU, Godhra organized a online ‘Poster Competition-2020’ on the occasion of ‘Gandhi Jayanti-2020’ on 2<sup>nd</sup> October, 2020. Various themes like ‘Importance of nutritional food for immunity booster, contribution of corona warriors in COVID-19, Swachhta hi Seva and Fit India Movement’ were given to students. Many students send their posters via E-mail. A judging committee comprise of following members like Er. Kapil Mandloi, Dr. Hardik Sharma, Mrs. Shefali Modi and Er. K. R. Jethva was formulated by Principal & Dean, CAET, Godhra to Judge the posters. The judging committee selected posters theme wise and students awarded with certificate.



### 5) Webinar on “Making Health and Nutrition a Priority During the COVID-19 Pandemic”

National Service Scheme unit of CAET, AAU, Godhra organized a Webinar on “Making Health and Nutrition a Priority During the COVID-19 Pandemic” on 03/10/2020 as a part of celebration of ‘Rashtriya Poshan Maah’ and ‘Fit India Movement-2020. In the beginning, Er. K. R. Jethva, NSS Programme Officer welcomed all the faculties, students and NSS volunteers for their participation and briefed about the webinar. He also delivered two lectures by on ‘Importance of Food Nutrition to Boost Immune System’ and ‘Importance of Fitness in COVID-19 Pandemic’. The faculty members, students and NSS Volunteers actively participated in this webinar.





## 6) Observance of Agricultural Education Day

The NSS Unit of College of Agricultural Engineering and Technology, AAU, Godhra organized an online ‘Essay Competition-2020’ on the occasion of ‘Agricultural Education Day’ a commemorates the birth anniversary of Dr. Rajendra Prasad, the first President of Republic of India. In his respect, 3<sup>rd</sup> December is celebrated as “Agriculture Education Day”. On this occasion, an essay competition was organized by the college. In this competition, total 14 students participated and student sent their entry via online mode. A judging committee comprise of following members like Dr. Hardik Sharma, Dr. Amin Brijesh and Er. K. R. Jethva was formulated by Principal & Dean, CAET, Godhra to Judge the competitions. Entries were evaluated based on the contents and way he expressed his views. Out of 14 students, 3 students will be selected for the certificates/prizes.



## 7.4 DISCIPLINARY COMMITTEE

The College Discipline Committee is constituted to maintain discipline in the college. Committee looks after and take care of the matters of general discipline pertaining to minor punishments in the college. Discipline Committee is formed as under:

Sr. No.	Name of Member	Designation
1	Dr. P. Gupta, Professor & Head (FMPE), CAET, AAU, Godhra (Nominated)	Chairman
2	Dr. D. K. Vyas, Asso. Prof. & Head (RE), CAET, AAU, Godhra (Nominated)	Member
3	Mrs. Shefali Modi, Assistant Professor, Dept. of BEAS, CAET, AAU, Godhra (Nominated)	Member
4	Chairman, Student’s Representative Council, CAET, AAU, Godhra	Member
5	Programme Officer, National Service Scheme, CAET, AAU, Godhra	Member
6	In-charge, Training and Placement Cell, CAET, AAU, Godhra	Member
7	In-charge, Library, CAET, AAU, Godhra	Member
8	Assistant Rector (Dr. A.P.J. Abdul Kalam Hall of Residence), CAET, AAU, Godhra	Member
9	Assistant Rector (Aruni Boys’ Hostel), CAET, AAU, Godhra	Member
10	Assistant Rector (Girls’ Hostel), CAET, AAU, Godhra	Member
11	Rector, CAET, AAU, Godhra	Member Secretary



## 7.5 ANTI-RAGGING SQUAD

With a view to maintain peaceful atmosphere during the initial new admissions in the College and to avoid any possible occurrences of ragging incidents at college/hostel premises, an Anti-Ragging squad is formed with the following members:

Sr. No.	Name of Member	Designation
1	Dr. Pankaj Gupta, Professor & Head (FMPE), CAET, AAU, Godhra	Chairman
2	Dr. D.K. Vyas, Asso. Professor & Head (REE), CAET, AAU, Godhra	Member
3	Dr. B.A. Amin, Asst. Prof. (BEAS), CAET, AAU, Godhra	Member
4	Dr. R. C. Salunkhe, Asst. Prof. & Chairman, SRC, CAET, AAU, Godhra	Member
5	Mrs. Hetal Tanna Asst. Prof., BEAS, CAET, AAU, Godhra	Member
6	Dr. N. Seth, Rector & Asst. Prof. (PFE), CAET, AAU, Godhra	Member Secretary

## 7.6 WOMEN CELL

The CAET Women cell is constituted to help, maintain a harmonious atmosphere at the institute, to enable women of CAET to pursue their work with dignity and reassurance. The cell has been working to raise awareness on gender equality issues. Institute is committed to maintaining a professional learning and working environment for its students, employees and guests. The Women cell's mandate is to prevent gender discrimination and inappropriate sexual conduct. The members of Gender Committee is given below

Sr. No.	Name of Member	Designation
1	Ms. H. R. Tanna	Chairperson
2	Mrs. S. K. Modi	Member
3	Ms. Khyati Vyas	Member
4	Ms. S. H. Vasava	Member
5	Ms. T. S. Damor	Member

## 7.7 ALUMNI ASSOCIATION

The following is the Second Executive Committee (2019-22) of Agricultural Engineering Alumni Association Godhra(AEAAG):

Sr. No.	Name of the Member	Designation
1	Dr. R. Subbaiah, Principal & Dean, CAET, AAU, Godhra	Patron
2	Dr. Dharmesh Vyas, Associate Professor & Head, Department of Renewable Energy Engineering, CAET, AAU, Godhra	President
3	Mrs. Hetal Tanna Mandal, Assistant Professor, Department of Basic Engineering and Applied Sciences, CAET, AAU, Godhra	Vice President
4	Er. J. Sravankumar, Assistant Professor, Department of Renewable Energy Engineering, CAET, AAU, Godhra	Honorary Secretary
5	Dr. R. C. Salunkhe, Assistant Professor, Department of Farm Machinery and Power Engineering, CAET, AAU, Godhra	Joint Secretary (Publication)



6	Dr. K. L. Dabhi, Assistant Professor, Department of Farm Machinery and Power Engineering, CAET, AAU, Godhra	Joint Secretary (Liaison)
7	Er. Chirag Jadav, Assistant Professor, Department of Basic Engineering and Applied Science, CAET, AAU, Godhra	Treasurer
8	Dr. R. Swarnakar, Professor, FMPE Dept., Dr. Pankaj Gupta, Prof. & Head, FMPE Dept., Dr. Navneet Kumar, Assoc. Prof. & Head, PFE Dept., Dr. Mukesh Tiwari, Asst. Prof. & Head, IDE Dept., Er. Kapil Mandoli, Asst. Prof. & Head, BEAS Dept., Dr. Gautam Kamani, Asst. Prof., BEAS Dept., Er. Viral Mendpara, Alumni Er. Hepin Banderi, Alumni Er. Barad Vipul, Alumni Er. Balas Duda, Ph.D Student	Co-opt Members

## Activities of AEAAG carried out during the year

### 1. Mask distribution and awareness program

Sensible to the society around it, Agricultural Engineering Alumni Association Godhra, act according to the need of the hour. Face Masks: one of the most primary essentials to protect oneself from the COVID-19. Understanding the need of bringing awareness and its need of wearing it AEAAG, organized an awareness program in the nearby village “Talaav Faliya, Chanchopa” and distributed around 500 marks among 100 families on 5<sup>th</sup> November 2020 following all COVID-19 guidelines. Dr.R.Subbaiah, Patron, Dr.D.K.Vyas, President, Dr.Pankaj Gupta, Professor, Er.Sravankumar, Secretary and Er.Chirag Jadav, Treasurer of AEAAG took part in this mask distribution and awareness program.



### 2. Blanket distribution program

As the winter chill turns harsh with each passing day, Agricultural Engineering Alumni Association Godhra spreaded warmth among the less privileged people of the society by carrying on blanket distribution program in the month of November 2020. The objective of the initiative is to provide shield to the less privileged from the winter. For this, the association visited old age home near moon light petrol pump of Godhra and distributed blankets to aged. A total of 15 blankets were distributed on 12<sup>th</sup> November 2020. President of the association, Dr. D.K.Vyas said that various other social welfare activities are being

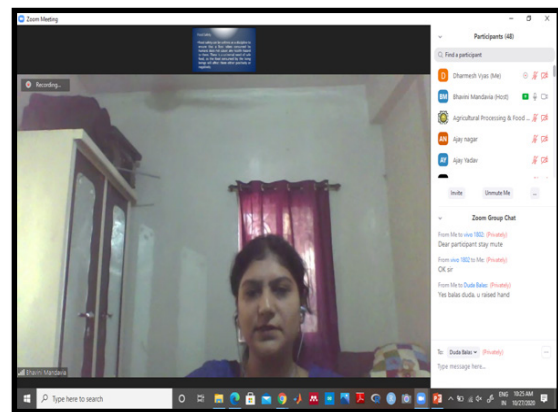
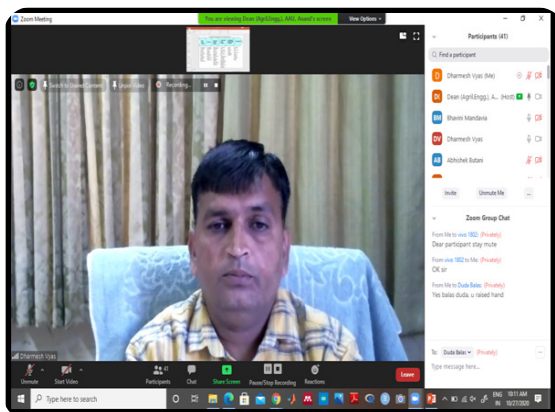
planned and blanket distribution is the most sought after initiative. The purpose of distributing blankets to the needy spreads the message of sympathy, love and sacrifices to the society and AEAAG feels the responsibility of society. Dr.R.Subbaiah, Patron, Dr. D.K.Vyas, President and Er.J.Sravankumar, Secretary of the association volunteered for this program.



## 7.8 INSTITUTE INDUSTRY INTERACTION CELL (IIIC)

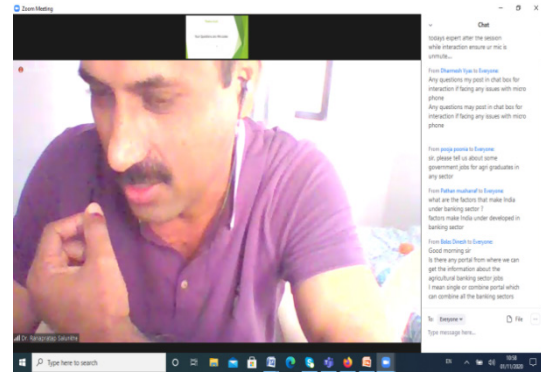
The Institute Industry Interaction Cell (IIIC) of College of Agricultural Engineering and Technology Godhra & Agricultural Engineering Alumni Association Godhra (AEAAG) jointly organized four expert lecture and interactive session through online mode during the year of 2020-21.

Sr. No.	Detail of activity	Date	Place	Beneficiaries
1	Expert lecture on “Food safety in Food Processing Industry ”	27/10/20	CAET, Godhra (Online)	75
2	Expert lecture on “Role of Agriculture Graduates in Banking and Finance Sector”	01/01/21	CAET, Godhra (Online)	90
3	Expert lecture on “ Entrepreneurship in Renewable Energy Sector ”	07/11/20	CAET, Godhra (Online)	90
4	Expert lecture on “ Use of Technology to organize used Tractors”	08/11/20	CAET, Godhra (Online)	90

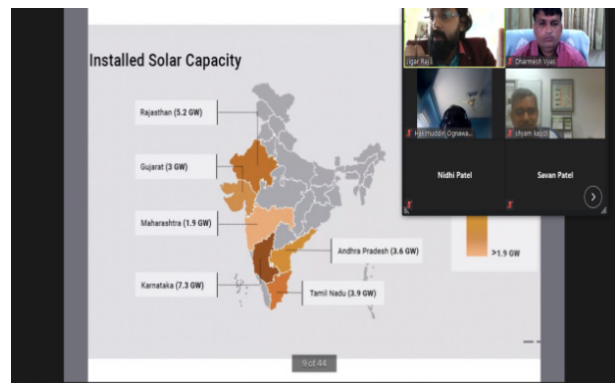
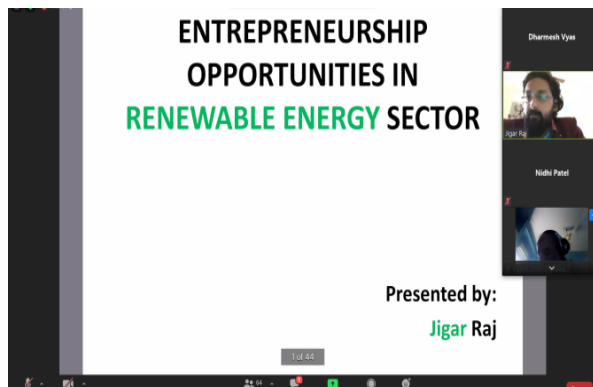


Expert lecture on “Food safety in food processing industry ”

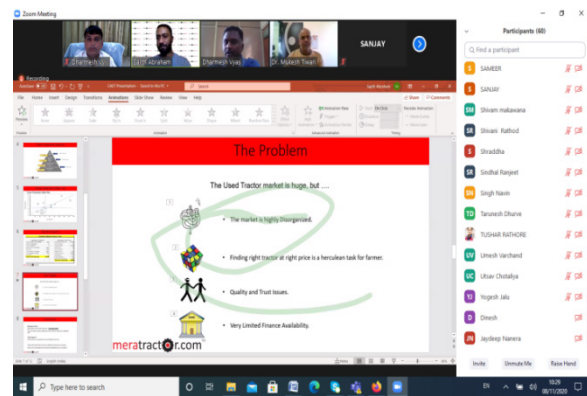




**Expert lecture on “Role of Agriculture Graduates in Banking and Finance Sector”**



**Expert lecture on “ Entrepreneurship in renewable energy sector”**



**Expert lecture on “Use of technology to organize used tractors”**

## 8. TRAINING AND PLACEMENT

The details about the summer trainings given to the students by different public and private sector organizations as well as the placement of outgoing students through campus interviews are given in this section. Also, the details about the year wise graduates passed out and their placements since the inception of the college are given hereunder. Dr. Mukesh K. Tiwari, Assistant Professor & Head, Department of Irrigation and Drainage Engineering, CAET, Godhra worked as the In-charge, Training and Placement cell.

**Table 8.1: Details of 4<sup>th</sup> / 6<sup>th</sup> Semester Students Deputed for One month Summer Training during the year 2020-21**

Sr. No.	Name of Organizations offered Training	No. of Students	Period	Duration (days)
1.	Irrilink Drip Irrigation Industries, Vadodara, Gujarat	71	1/6/2020 to 30/6/2020	30
2.	TAFE Product Training Centre, Kanchipuram	11	1/6/2019 to 30/6/2020	30
<b>Total</b>		<b>82</b>		

**Table 8.2: Details of 8<sup>th</sup> Semester Students deputed for In-Plant trainings during the year 2020-21**

Sr. No.	Name of Organizations offered Training	No. of Students	Period	Duration (months/days)
1.	Jointly by different Departments of CAET, AAU, Godhra	34	05/09/2020 to 08/01/2021	4 Months
<b>Total</b>		<b>34</b>		

**Table 8.3 Students Placement in 2020-21 (Under Graduate)**

Sr. No.	Name of organization	Name of student
1.	Captain Tractors, Rajkot	Solanki Ashishkumar Nitinkumar Nimavat Ankitkumar Umeshbhai
<b>Total</b>		<b>02</b>

**Table 8.4: Year wise B. Tech. (Agril. Engg.) Graduates Passed out & their Placement**

Years	Total No. of Graduates	Jobs obtained in different sectors through placement cell					
		Gov. Services	Industry	Self-employed		Higher Edu.	Others (Specify)
				Farming	Business		
2012-13	27	-	13	-	-	14	-
2013-14	27	-	12	-	-	15	-
2014-15	25	-	14	-	-	11	-
2015-16	28	-	21	-	-	07	-
2016-17	34	-	16	1	-	14	3*
2017-18	51	-	20	-	-	10	21*
2018-19	42	-	11	-	-	12	19*
2019-20	39	-	11	-	-	12	16*
2020-21	31	-	02	-	-	14	17*

\* Preparing for competitive examinations/higher studies/self business



## 9. ADMITTED AND PASSED OUT STUDENTS

**Table 9.1 List of Admitted Undergraduate Students during the year**

Sr. No.	Registration No.	Name of Student
1	3050720001	Amareliya Sakshiben Kirankumar
2	3050720002	Anupama Sharma
3	3050720003	Damor Jaimin Gatubhai
4	3050720004	Dave Yash Kaushikkumar
5	3050720005	Der Dinesh Deshurbhai
6	3050720006	Ghada Afzal Iliyasbhai
7	3050720007	Jadav Akash Vanrajbhai
8	3050720008	Jadav Pragnesh Ambrishbhai
9	3050720009	Jayswal Darshakkumar Bharatkumar
10	3050720010	Kalotra Jayeshbhai Matrabhai
11	3050720011	Luhar Aadityabhai Vijaybhai
12	3050720012	Makavana Navin Bhaveshbhai
13	3050720013	Nisarg Dedhiya
14	3050720014	Nisha Chavda
15	3050720015	Pandav Keval Himmatbhai
16	3050720016	Patel Aditya Arvindkumar
17	3050720017	Patel Harshitkumar Sanjaybhai Manubhai
18	3050720018	Patel Jaykumar Arvindhbhai
19	3050720019	Pratham Sen
20	3050720020	Rami Isha Janakbhai
21	3050720021	Raushan Kumar Niti
22	3050720022	Shah Krushank Jigneshbhai
23	3050720023	Shayla Khan
24	3050720024	Shrimali Tejas Harishkumar
25	3050720025	Soma Dutta
26	3050720026	Subhash Kumar Kushwaha
27	3050720027	Tandel Het Harishbhai
28	3050720028	Thakor Dharmkumar Jayantibhai
29	3050720029	Vala Kiran Mulubhai
30	3050720030	Yadav Radhika Rajiv Ranjan

### Diploma to Degree Students

Sr. No.	Registration No.	Name of Student
1	5050720001	Chauhan Krunal Dilipsinh
2	5050720002	Hadiya Deep Keshavji
3	5050720003	Kalara Jigarkumar Mukeshbhai
4	5050720004	Makawana Shivamkumar Rajeshbhai

**Table 9.2 List of Passed out Undergraduate Students during the year**

Sr. No.	Registration No.	Name of Student
1	05-0321-2016	Abhi Mistry
2	05-0322-2016	Bhagora Sharmishthaben Kanubhai
3	05-0325-2016	Chaudhary Nitinbhai Ashvinbhai
4	05-0326-2016	Chaudhary Vipulkumar Ishwarbhai
5	05-0327-2016	Chavda Sidhdharajsinh Haribhai
6	05-0329-2016	Desai Naimish Mansukhbhai
7	05-0330-2016	Dhandhalya Akshaykumar Bhupatbhai
8	05-0332-2016	Dodiya Bhavsinh Masaribhai
9	05-0333-2016	Gandhi Rajdeep Rameshchandra
10	05-0334-2016	Hirapara Ankurkumar Ashokbhai
11	05-0336-2016	Krushaben Chhasatia
12	05-0337-2016	Makwana Kinjalben Mahendrakumar
13	05-0338-2016	Momin Meherbanali Gulamhaider
14	05-0339-2016	Nimavat Ankitkumar Umeshbhai
15	05-0340-2016	Patel Duleshkumar Ashvinbhai
16	05-0342-2016	Patel Sachinkumar Girishbhai
17	05-0343-2016	Pindariya Bhavesh Savadashbhai
18	05-0345-2016	Ram Vinod Hamirbhai
19	05-0349-2016	Solanki Ashishkumar Nitinkumar
20	05-0350-2016	Solanki Bhavishaben Sukhdev
21	05-0352-2016	Solanki Rajeshbhai Panchabhai
22	05-0353-2016	Sorathiya Harshalkumar Mukeshbhai
23	05-0354-2016	Sutariya Sachinkumar Jasharajbhai
24	05-0355-2016	Vaghela Amit Kishorbhai
25	05-0356-2016	Vohra Sahil Rafikbhai
26	05-0357-2016	Vyas Yash Nileshbhai
27	D5-0359-2017	Thaker Brinda Ashvinbhai
28	D5-0360-2017	Vadher Divyaben Mulubhai
29	D5-0361-2017	Vagela Priyankaben Shankarbhai
30	05-0291-2015	Monapara Maulik Nileshbhai
31	05-0234-2014	Bhagora Priteshkumar Sartanbhai

**Table 9.3 List of Admitted Post Graduate Students during the year**

Discipline	Sr. No.	Name of Student	Registration No.
<b>M. Tech.</b>			
Farm Machinery & Power Engg.	1	Vishwash	2050720001
<b>In Service-M.Tech.</b>			
Soil and Water Conservation Engg.	1	Suryavansi Suryaprakash Bhanubhai	04-2272-13/2020
<b>Ph.D.</b>			
Farm Machinery & Power Engg.	1	Shukla Kripanarayan Surendrabhai	1050720002
	2	Ghanshyam Panwar	1050720004
<b>In Service-Ph.D.</b>			
Farm Machinery & Power Engg.	1	Rangapara Dineshkumar Jivrajbhai	1050720001
	2	Yoganandi Yagnik Chetankumar	1050720003

**Table 9.4 List of Passed out Post Graduate Students during the year 2020-21**

Discipline	Sr. No.	Name of Student	Registration No.
<b>M. Tech.</b>			
Soil and Water Conservation Engg.	1	Deepa Sahu	04-3270-2017
	2	Kaushal Gadariya	2050718005
	3	Hirapara Paraskumar Subhashbhai	2050718004
Irrigation and Drainage Engg.	1	Nikunj Kumar Chauhan	2050718008
Processing and Food Engg.	1	Nayi Pratikumar Navinbhai	2050718007
<b>In Service- M. Tech.</b>			
Farm Machinery & Power Engg.	1	Godhani Rajeshkumar Shivabhai	04-3338-2017
Processing and Food Engg.	1	Vinzuda Sudhir Kumar Balubhai	04-3340-2017
Renewable Energy Engg.	1	Chavda Jagdishkumar Jamnadas	04-3337-2017



## Measures taken by College to combat COVID

Apart from following the Covid guidelines issued by the Government below mentioned measures were also taken :

**Entrance of college :** Before entering of any person in the college, his/her temperature and oxygen level is being measured with the help of a temperature gun and oximeter, respectively. Also, his/her hands were also sanitized.

Photo Temperature Measurement at Gate



Using Oximeter at Gate



**College premise-** At different places in college premises, posters were affixed to aware the students about covid and encourage them to wear mask and to use sanitizer. To accomplish this, sanitizer dispenser unit were installed in the department and other premises of the college.

Sanitizer Dispenser Unit



Posters for Covid





**Hostels-** Temperature gun and sanitizer dispenser were put at the entrance of the hostels.

Temperature Gun



Sanitizer Dispenser



**Hostel mess-** To maintain social distancing in mess during taking the food, marking papers were affixed on the floor of the mess to avoid covid in the mess. Also, to maintain social distancing while eating, adjacent sets were marked to be left.

Floor Marking in Mess



Dining Table





## PASS OUT BATCH (2020-21) UG STUDENTS



Abhi Mistry



Bhagora  
Priteshkumar S.



Bhagora  
Sharmishthaben K.



Chaudhary  
Nitinbhai A.



Chavda  
Sidhdharajsinh H.



Chaudhary  
Vipulkumar I.



Desai Naimish M.



Dhandhalya  
Akshaykumar B.



Dodiya Bhavsinh M.



Gandhi Rajdeep R.



Hirapara  
Ankurkumar A.



Krushaben  
Chhasatia



Makwana Kinjalben M.



Momin Meherbanali G.



Monapara Maulik N.



Nimavat Ankitkumar U.



Patel Duleshkumar A.



Patel Sachinkumar G.



Pindariya Bhavesh S.



Ram Vinod H.



Solanki Ashishkumar N.



Solanki Bhavishaben S.



Solanki Rajeshbhai P.



Sorathiya  
Harshalkumar M



Sutariya Sachinkumar J.



Thaker Brinda A.



Vadher Divyaben M.



Vagela Priyankaben S.



Vaghela Amit K.



Vohra Sahil R.



Vyas Yash N.

## PASS OUT BATCH (2020-21) PG STUDENTS



Chavda Jagdishkumar J.



Deepa Sahu



Godhani Rajeshkumar S.



Kaushal Gadariya



Chauhan Nikunj Kumar



Vinzuda Sudhirkumar B.



Hirapara Paras



Nayi Pratikkumar



**COLLEGE OF AGRICULTURAL ENGINEERING AND TECHNOLOGY**  
**ANAND AGRICULTURAL UNIVERSITY**  
**GODHRA-389001**  
**GUJARAT-INDIA**

**(2020-21)**