

ANNUAL PROGRESS REPORT

(2015-2016)

Volume: 6



**COLLEGE OF AGRICULTURAL ENGINEERING
AND TECHNOLOGY**

ANAND AGRICULTURAL UNIVERSITY
GODHRA – 389 001
GUJARAT - INDIA



ANNUAL PROGRESS REPORT

(2015-2016)



Compiled by

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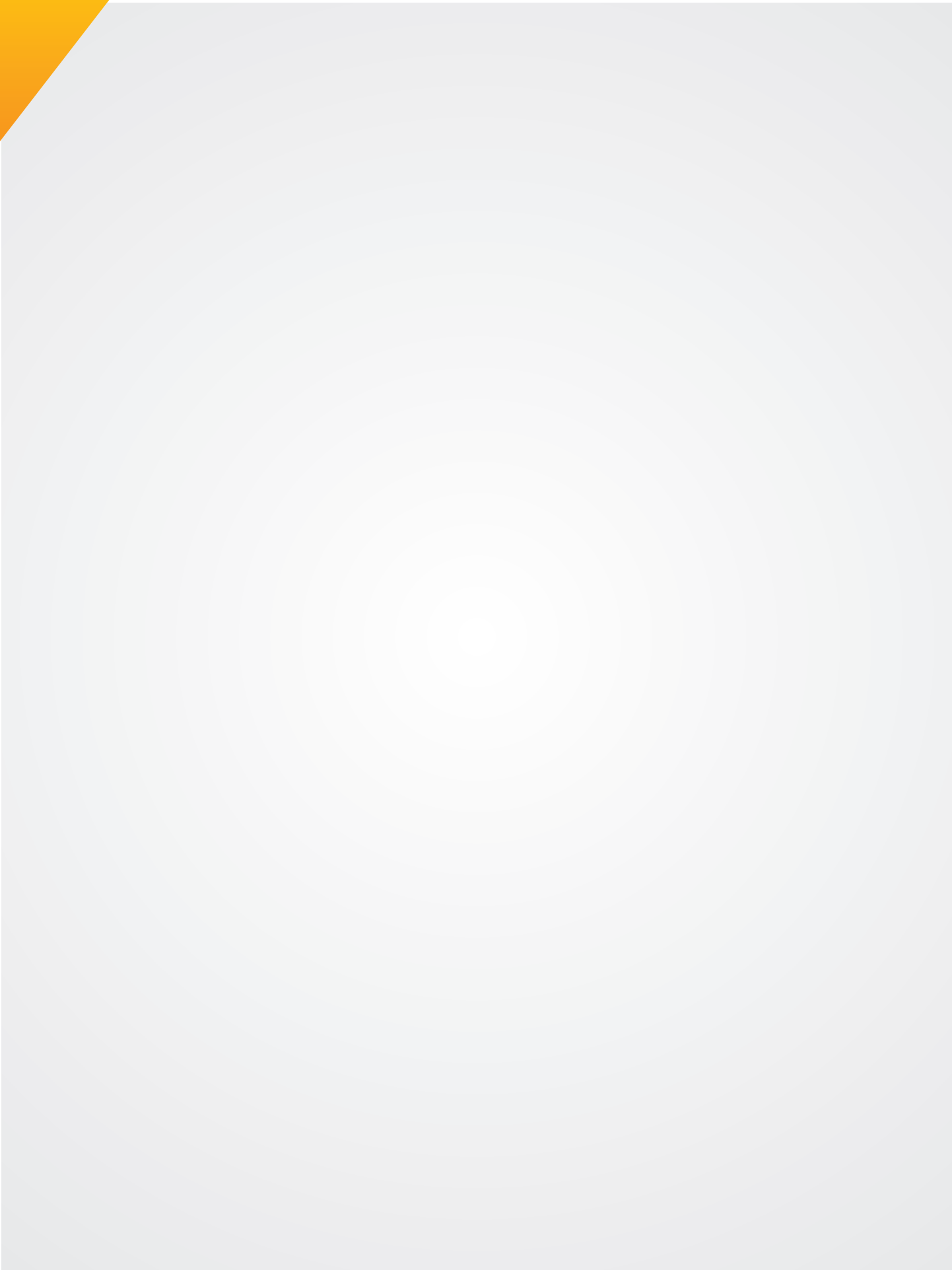
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COLLEGE OF AGRICULTURAL ENGINEERING AND TECHNOLOGY

ANAND AGRICULTURAL UNIVERSITY, GODHRA – 389 001

GUJARAT - INDIA



**Vice Chancellor
Anand Agricultural University
Anand**



Dr. N. C. Patel

Message

Indian agriculture is at cross roads where it has been transformed into a best business opportunity. To achieve it, newly emerged discipline of Agricultural Engineering is up-coming in a grand way. In recent years, it has gained tremendous value and importance, being a true application of engineering and technological principles for the benefit of Indian agriculture and rural life.

I am pleased to know that College of Agricultural Engineering and Technology, Godhra has successfully completed eight years. Within a short span of time the College has come up to a very high level, awarding degree to 5 successful batches of B. Tech. (Agricultural Engineering) and 3 batches of M. Tech. (Agricultural Engineering) with specialization in Soil and Water Engineering and Farm Power and Machinery Engineering along with 2 students in Ph. D. (Agricultural Engineering) with specialization in Soil and Water Engineering and Renewable Energy Engineering.

I am sure that the College shall remain as a torch-bearer in the field of Agricultural Engineering to deliver tailor made technological solutions for various problems/ issues pertaining to sustainable agriculture, precision agriculture, farm mechanization, value addition and processing and renewable energy applications.

I extend my heartily appreciation to the Principal and Dean, compilation team and staff of the college for bringing out a nice publication on college activities and achievements during the year in form of “**Annual Progress Report (2015-16)**” of CAET .

A handwritten signature in blue ink that reads "N. Patel" with a horizontal line extending to the right.

(Dr. N. C. Patel)

Place : Anand

Date : 19-12-2016



Dr. R. Subbaiah

**Principal and Dean
College of Agricultural Engineering & Technology
Anand Agricultural University
Anand**

Message

The College of Agricultural Engineering and Technology, Anand Agricultural University, Godhra is one of the prestigious institutions in the Gujarat state and country, which imparts education in the field of Agricultural Engineering. The institution is making a steady progress to achieve its mission and vision of development in various agricultural engineering interventions in tribal region of middle Gujarat. The graduates and post graduates of this college have contributed significantly in the sectors like Agricultural Engineering Education, Research and Extension. The College is focusing in frontier areas like- soil and water engineering, farm power and machinery, agricultural processing & value addition and renewable energy applications.

The brief of the college activities including academic programs, Student Representative Council, National Service Scheme, Faculty and Staff achievements, fund utilization and departmental activities are being placed in a systematic manner to have a glance. The annual report also presents the glimpses of the overwhelming progress made by the college during 2015-16. The dedication, zeal and interest of the faculty is carving young engineers of this college to undertake any task of college development and social upliftment activities needs to be applauded. The college Training and Placement cell's endless efforts can be reflected through the placement of the students in various industry partners like Jain Irrigation, Captain Tractors and Tirth Agro. The students also cracked ICAR (01 no.) for higher studies and earned fellowships, medals and awards.

I am heartily thankful and delighted to have all the time a nice support received from our worthy Hon'ble Vice Chancellor (Dr. N. C. Patel), without which it could be such as it is. On this juncture, I also thank Dr. K. B. Kathiria, Director of Research and Dean PG Studies, Dr. Arun Patel, Director of Extension Education, Dr. D. C. Joshi, Dean, Food Processing Technology and Bio Energy, Dr. M. N. Brahmabhatt, Registrar and all other University Officers who all supported the college to achieve the desired goal.

I extend my hearty pleasure to the compilation team and staff of the college for bringing out a nice publication.

Place : Godhara

Date : 02-12-2016

(Dr. R. Subbaiah)

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1. ABOUT CAET

The College of Agricultural Engineering & Technology was established in the year 2008 by the Government of Gujarat under Vanbandhu Kalyan Yojana situated in 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 just 5 kms from 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 for learning. Godhra city 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 very comfortable and easily accessible place.



The College of Agricultural Engineering & Technology was established by the Government of Gujarat under Vanbandhu Kalyan Yojana in tribal area at Godhra on 9th May, 2008. Presently the college has mainly four departments namely Soil & Water Engineering, Farm Machinery & Power Engineering, Agricultural Process Engineering, and Renewable Energy. These departments have well qualified experienced faculty members and well equipped laboratories. Some of the facilities the college possesses include 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 SWE, FMPE and RE. 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 requirement of agricultural engineering interventions. Outsource projects on various aspects are being conducted to strengthen the R&D activities at this Institutions. The various technologies in the field of agricultural engineering are continuously being disseminated through radio talks, trainings, krushi mela, krushi mahaotsav 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 synergic partnership.
- To prepare highly skilled, technically sound manpower by starting academic programmes like B.Tech., M.Tech. and Ph.D. utilized for Agril. 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 emerging 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 round 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 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, which 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 position of the College during the year 2015-16 and budget head wise grant allocation and its utilization are given below:

STAFF POSITIONS

Administrative structure of the college

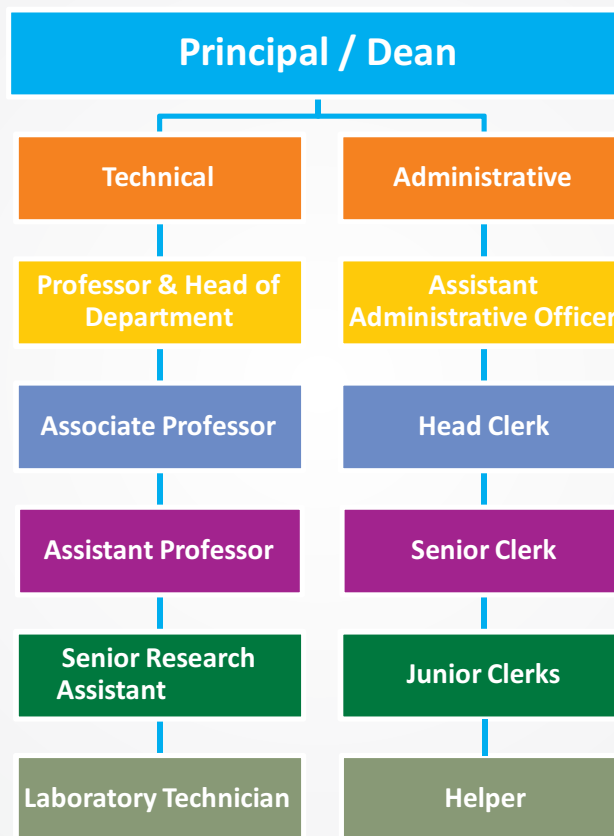


Table 2.1 Overall Staff Position

Name of the post	Sanction	Filled	Vacant
Principal	1	0	1
Professor	2	2	0
Associate Professor	3	2	1
Assistant Professor	18	15	3

Non-Teaching

Name of the post	Sanction	Filled	Vacant
Sr. Research Assistant	6	6	0
Lab Technician	3	3	0
Mechanic	1	1	0
Forman Instructor	1	1	0
Supervisor Instructor	1	0	1
Hostel Asst. Warden	1	1	0
Administrative Staff	9	4	5
Other Supportive Staff	1	1	0
Total	47	36	11

Table 2.2 Department wise Faculty positions

Department	Sanctioned Positions			Filled Positions		
	Professor	Assoc. Professor	Assistant Professor	Professor	Assoc. Professor	Assistant Professor
Soil & Water Engg.	1	-	5	1	-	2
Farm Machinery & Power	1	1	5	1	1	5
Agricultural Process Engg.	-	1	4	-	1	4
Renewable Energy	-	1	4	-	-	4
Total	2	3	18	2	2	15

Table 2.3 Faculty Credentials

Department	Ph. D.		M.Sc.		M.Tech./M.E.	
	No.	%	No.	%	No.	%
Soil & Water Engg.	2	33.33	1	25	-	-
Farm Machinery & Power	2	33.33	-	-	5	55.56
Agricultural Process Engg.	2	33.33	1	25	2	22.22
Renewable Energy	-	-	2	50	2	22.22
Total	6	100	4	100	9	100

Table 2.4 Faculty Composition (No. and % of total)

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 Engg.	-	-	1	50	-	-	-	-	1	10	1	20

Farm Machinery & Power	-	-	1	50	-	-	1	50	3	30	2	40
Agricultural Process Engg.	-	-	-	-	-	-	1	50	3	30	1	20
Renewable Energy	-	-	-	-	-	-	-	-	3	30	1	20
Total	-	-	2	100	-	-	2	100	10	100	5	100

Table 2.5 Location of Highest Degree Received by the Faculty

Cadre	Highest degree from same university	Highest degree from other university within the state	Highest degree from out of the state university	Highest degree from foreign country
Professor	-	-	2	-
Assoc. Professor	-	-	2	-
Asst. Professor	4	5	6	-
Total	4	5	10	-
Percentage	21.05	26.32	52.63	-

BUDGETARY OUTLAYS

Table 2.6 Grants Received and Expenditure by College during the Year

Grants Received (Rs. in lakhs)					
Particulars	Pay & Allowances	Recurring Contingency	Non-Recurring	Work	Total
Non-plan	-	0.675	-		0.68
Plan (State)	231.01	99.23	9.61		339.85
Internal Resources	-	-	-		-
ICAR	0.10	1.50	0.20		1.80
Others	10.79	18.68	31.00		60.47
Total	241.90	120.09	40.81		402.80
Expenditure Incurred (Rs. in lakhs)					
Particulars	Pay & Allowances	Recurring Contingency	Non-Recurring	Work	Total
Non-plan	-	0.475	-	-	0.475
Plan (State)	230.64	92.90	9.59	-	333.13
Internal Resources	-	-	-	-	-
ICAR	0.10	0.998	0.15	-	1.248

Others	0.68	7.94	11.12	-	19.74
Total	231.42	102.313	20.86	-	354.593

Table 2.7 Internal Resources Generated during the year

Sr. No.	Particulars	Rs. (lakhs)
1	Farm including dairy, poultry, etc	1.46
2	Students fees	24.10
3	Consultancy	-
4	Hiring out college facilities	-
5	Funds raised by Alumni Groups	-
6	Other (specify)	2.36
	Total	27.92

Table 2.8 Budget Allocations Under Different Sub-heads

Sub-Head	Total Rs. (lakhs)	Percent
Establishment (pay & allowances)	241.90	60.05
TA	-	-
Recurring contingency	120.09	29.81
Works	1.50	0.37
Maintenance	-	-
Others (Non-Recurring)	39.31	9.76
Total	402.8	100.0

Table 2.9 Annual Budget for Education, Research and Extension Education

All figures are in Rs. (lakhs)

Budget	Resident Instruction		Research		Extension	
	Allocated	Expenditure	Allocated	Expenditure	Allocated	Expenditure
Non-plan	0.68	0.475	-	-	-	-
Plan	304.83	298.99	35.02	34.14	-	-
ICAR	1.80	1.248	-	-	-	-
Others	60.47	19.74	-	-	-	-
Total	367.78	320.453	35.02	34.14	-	-

Table 2.10 Summary of Grant Allocation and Utilization

All figures are in Rs.

	Pay & Allow	Recurring	Non-Recurring	Total
Sanctioned	24190000	12008550	4081000	40279550
Utilized	23142521	10231892	2086973	35461386

Table 2.11 Grant Allocation and Utilization (Budget Head wise)

Sr. No.	Scheme	Budget Head	Grant Allocation				Grant 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
1		12975	21183000	6500000	215000	27898000	21169923	6387393	214043	27771359
2		12987-01	233000	1823000	0	2056000	227175	1377402	0	1604577
3		12993-10	751000	560000	0	1311000	740057	558323	0	1298380
4		12993-10 (Spill Over)	0	0	596000	596000	0	0	595750	595750
5		12993-11	715000	400000	0	1115000	712703	385996	0	1098699
6		12993-12	0	480000	0	480000	0	421938	0	421938
7		12865	90000	70000	0	160000	84974	69520	0	154494
8		12967	0	60000	0	60000	0	59169	0	59169
9		12967-02	0	30000	0	30000	0	30000	0	30000
10		12600	0	0	150000	150000	0	0	149800	149800
11		12703	36000	0	0	36000	36000	0	0	36000
12		12967-01	93000	0	0	93000	93000	0	0	93000

13		15658	10000	0	0	10000	10000	0	0	10000
14		15306	0	30000	0	30000	0	29900	0	29900
15	ICAR	15506	0	0	20000	20000	0	0	15100	15100
16		15605	0	70000	0	70000	0	19992	0	19992
17		15706	0	50000	0	50000	0	49950	0	49950
18		4500	0	50000	0	50000	0	31089	0	31089
19	Non-plan	4862	0	10000	0	10000	0	9990	0	9990
20		4862-B	0	7500	0	7500	0	6480	0	6480
21		18311-04	39000	0	0	39000	39000	0	0	39000
22	Other Agency	18096	1040000	1828500	3100000	5968500	29689	755200	1112280	1897169
23		18273	0	39550	0	39550	0	39550	0	39550
	Total		24190000	12008550	4081000	40279550	23142521	10231892	2086973	35461386

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 2015-16 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	Under Graduate Programme					
	B. Tech.	Agricultural Engineering	4 Years	40	2008	
2	Post Graduate Programme					
	i) M. Tech.	1	Farm Machinery and Power Engineering	2 Years for full time and	Depends upon faculty members available for guidance	2011
		2	Soil and Water Engineering	3 Years for in-service		
		3	Renewable Energy Engineering			
		4	Processing and Food Engineering			2015
	ii) Ph. D.	1	Soil and Water Engineering	3 Years for full time and	Depends upon faculty members available for guidance	2011
		2	Farm Machinery and Power Engineering	4 Years for in-service		
		3	Renewable Energy Engineering			
		4	Processing and Food Engineering			2015
	3	Vocational Course in Agricultural Engineering (Certification Course)				
	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	

Table 3.2 Intake Capacity and Admitted Students in the Courses Offered

Degree offered	Intake	Admitted
Under Graduate Programmes		
B. Tech. (Agril. Engg.)	40 + 8 (D to D)	34 + 7 (D to D)
Post Graduate Programmes (M. Tech. (Agril. Engg.))		
Farm Machinery and Power Engineering	02+01*	01+01**
Soil and Water Engineering	05	01
Processing and Food Engineering	02	02+01**
Renewable Energy Engineering	00	
Post Graduate Programmes (Ph.D.)		
Farm Machinery and Power Engineering	02	-
Soil and Water Engineering	02	01
Processing and Food Engineering	00	-
Renewable Energy Engineering	00	-

*payment seat ** In-service students

Table 3.3 Category wise Distribution of Students

Sr. No.	Category	No. of Bachelors*	No. of Masters	No. of Ph.D.
1.	Domicile			
	a) Rural- Gujarat	28	4	-
	b) Urban-Gujarat	12	1	-
	c) Other State	01	2	01
	d) Foreign	-	-	-
	Total	41	6	01
2.	Sex			
	a) Male	40	06	-
	b) Female	01	00	01
	Total	41	06	01
3.	Reservation			
	a) SC Communities	02	-	-
	b) ST Communities	05	1	-
	c) OBC/SEBC	14	2	-
	d) General	19	1	-
	e) ICAR	1	2	01
	f) Payment	0	-	00
	Total	41	6	01

* Including students of D to D

Table 3.4 Year wise UG and PG Students passed out

Year	No. of UG Graduates Passed	No. of PG Graduates Passed			
		Farm Machinery and Power Engineering	Soil and Water Engineering	Renewable Energy Engineering	Total
2012	27	N.A.	N.A.	N.A.	N.A.
2013	27	N.A.	N.A.	N.A.	N.A.
2014	25	-	-	-	-

2015	28	2	3+1*	-	5+1*
2016	34	5	4	1*	9+1*
Total	141	7	3+1*	1*	14+2*

*Shows the number of Ph. D. students

Table 3.5 Category wise Strength of UG students

Semester	Category	First Year		Second Year*		Third Year		Fourth Year		Total	
		Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
Odd	General	16	2	17	0	26	0	18	0	77	2
	SEBC	8	1	18	1	18	0	13	1	57	3
	SC	2	1	1	0	2	1	1	0	6	2
	ST	4	2	5	1	4	0	1	0	14	3
	Total	30	6	41	2	50	1	33	1	154	10
Even	General	15	2	17	0	26	0	18	0	76	2
	SEBC	7	1	18	1	18	0	13	1	56	3
	SC	2	1	2	0	2	1	1	0	7	2
	ST	4	2	5	1	4	0	1	0	14	3
	Total	28	6	42	2	50	1	33	1	153	10

* Includes D to D Students

Table 3.6 Discipline wise strength of the M. Tech. Students

Sr. No.	Specialization	No. of students registered	
		Fresh	In-service
1	Farm Machinery and Power Engineering	1	1
2	Soil and Water Engineering	1	-
3	Post-Harvest Processing and Food Engineering	2	1
4	Renewable Energy Engineering	-	-
Total		4	2

Table 3.7 Discipline wise strength of the Ph. D. students

Sr. No.	Specialization	No. of students registered	
		Fresh	In-service
1	Farm Machinery and Power Engineering	-	-
2	Soil and Water Engineering	1	-
3	Agricultural Process and Food Engineering	-	-
4	Renewable Energy Engineering	-	-
Total		1	-

Table 3.8 Student Retention Data for the Year 2015-16

Programs	Students admitted*				Dropped				Appeared in final examination				Percentage Passed			
	M		F		M		F		M		F		M		F	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
UG	30	83.33	6	16.67	2	100	-	-	33	97.06	1	2.94	33	97.06	1	2.94
PG	6	85.71	1	14.29	-	-	1	100	9	90	1	10	9	90	1	10

M= Male, F= Female

Table 3.9 Details of Scholarship/ Financial Assistance Awarded to the Students

Sr. No.	Types of Scholarship/Financial Aids	Number of Recipient	Amount (Rs)	Remarks
1	National Talent Scholarship	nil	----	
2	Merit cum means scholarship	nil	----	
3	University Scholarship for undergraduate (UG)	03	9000	Half yearly of New Students
		09	27000	Half Yearly of Renewal Students
4	University Scholarship for Post graduate (PG)	01	18000	Half yearly
5	SEBC Post Metric Scholarship (UG)	48	60000	Only food bill & Sadhan Sahay
6	SEBC Post graduate Scholarship (PG)	01	20000	
7	SC Post Metric Scholarship	06	156200	
8	ST Post Metric Scholarship	10	106400	
	Total	78	396600	

Table 3.10 No. of Students Qualified ICAR-JRF or GATE Examinations

Year	No. of students qualified JRF exam.	No. of students qualified GATE exam.
2011-12	1	1
2012-13	5	3
2013-14	1	--
2014-15	--	2
2015-16	1	--

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

S. No.	Name of the Student	Reg. No.	Project Title	Project Advisor
1	Balas Dudabhai B. Ladani Uttam R.	05-0141-2012 05-0157-2012	Developing a simpler rainfall simulation device for generating real field runoff observation on a few orchards at CAET experimental research farm Kakanpur.	Dr. M.L. Gaur
2	Dangar Kishan K. Sakariya Mukeshbhai K.	05-0149-2012 05-171-2012	Scheduling irrigation in selected canal command in Panchmahal district for optimum water use	Dr. S.K. Raul
3	Patel Sauravkumar R. Chaudhari Tejaskumar P.	05-0166-2012 05-0147-2012	Development of electric motor operated vertical feed maize sheller	Er. R. C. Salunkhe
4	Vaghasiya Sagar P. Kachadiya Sagar G.	05-0129-2011 05-0155-2012	To study a physico-chemical properties off custard apple	Er. K.R. Jethva
5	Gohil Jashpalsinh R. Zinzala Rameshkumar V.	05-0153-2012 05-0130-2011	To study the physico-chemical analysis of mixed fruit wood apple and papaya jam	Mrs. S. K. Modi
6	Baria Trusharkumar M. Koli Satvantsinh M.	05-0103-2011 05-0076- 2010/12	Design and development low cost single row seed metering mechanism for conventional plough	Er. K. L. Dabhi
7	Badi Mukhtarahmad A. Bharwad Dipakkumar D.	05-0140-2012 05-0106-2011	Development of a manually operated twin wheel weeder with adjustable blades	Er. C. Jadav
8	Bhojani Hirenkumar R.	05-0144-2012	Performance evaluation of biomass based combustor for turmeric drying	Dr. Neeraj Seth
9	Parmar Mehul M.	D5-0135-2012	Development of solar based dc air cooler	Er. Vishal Mehra
10	Patel Naitikkumar A. Vekariya Satishkumar K.	D5-0136-2012 D5-0138-2012	Performance and evaluation of throat type updraft gasifier for thermal application	Dr. D. K. Vyas
11	Shah Himanshubhai K.	05-0172-2012 D5-0177-2012	Performance evaluation of solar food processor as dryer	Er. J. Sravankumar
12	Dodia Jaydipkumar R. Barad Vipulbhai L.	05-0151-2012 05-0142-2012	Development of fertilizer metering mechanism for the existing mini tractor operated two raw semi automatic potato planter	Dr. R. Swarnakar
13	Rathod Siddharth M.	D5-0178-2013	Development of battery operated rotary blade harvester	Dr. Pankaj Gupta
14	Pargi Digvijaysinh L. Parmar Sanjaykumar H.	05-0161-2012 05-0163-2012	Evapotranspiration modelling using remote sensing and geo graphical information system	Dr. Mukesh Tiwari
15	Dabhi Ashokkumar V.	D5-0175-2013	To study three point linkage system of sowing machine and evaluation	Er. Kapil Mandloi

	Solanki Mayursinh U.	D5-0179-2013	performance of zero till drill using different power source	
16	Bariya Manojkumar G. Panchal Purnimaben M.	D5-0132-2012 D5-0176-2013	Development of custard apple harvester	Dr. Navneet kumar
17	Gaglani Hemang V. Rajani Niravkumar V.	05-0152-2012 05-0167-2012	To modify existing mini tractor drawn multipurpose tillage implement and development of blade harrow attachment	Dr. R. Swarnakar
18	Butani Niravkumar J. Lakhani Sameerbhaj G.	05-0146-2012 05-0158-2012	Study of the noise and vibration characteristics of an agricultural tractor	Er. M. D. Vohra

Table 3.12 List of PG Students Completed their Thesis

S. No.	Name of the Student	Reg. No.	Project Title	Project Advisor
M.Tech. Thesis (Soil and Water Engineering)				
1	Baria Sonalben Vechatbhai	04-2263-2013	Experimental investigation on flow characteristics of few prototype hydraulic structures under varying discharge conditions	Dr. M.L. Gaur
2	Pampaniya Niravkumar K.	04-2266-2013	Hydrological modeling of an agricultural watershed using HEC-HMS, remote sensing & GIS	Dr. M.K. Tiwari
3	Patel Jigarkumar Manubhai	04-2267-2013	Development of distribution function based SUH models using GIS and remote sensing	Dr. P.K.Singh, PAE, Dahod
4	Prateek Kumar	04-2268-2013	Studying variability in observed soil infiltration rates as influenced by infiltrometers of varied configurations	Dr. M.L. Gaur
M. Tech. Thesis (Farm Machinery and Power Engineering)				
5	Bhimani Jasminkumar B.	04-2264-2013	Development of mini tractor operated precision pneumatic planter for vegetable crops	Dr. S.K. Patel, KVK, Dahod
6	Kanzariy Jaydev G.	04-2265-2013	Development of a low cost power operated maize sheller for small and marginal farmers	Dr. R. Swarnkar
7	Shukla Kripanarayan S.	04-2270-2013	Development of Mini Tractor Operated Disc Type Vertical Tillage Implement	Dr. Pankaj Gupta
8	Sule Vipin Yashavant	04-2271-2013	Development of manually operated pull type dibbler planter for field crops	Dr. B.K. Yaduvanshi, PAE, Dahod
9	Raulaji Hardikkumar K.	04-2043-2012	Development Of Mini Tractor Operated Two Row Semi Automatic Potato Planter	Dr. R. Swarnkar
In-service Ph.D. Thesis (Renewable Energy Engineering)				
10	Vyas Dharmeshkumar K.	04-1824-2011	Design and development of a 500 m ³ /h capacity biomass gasifier based combustor for ginger drying	Dr. S. S. Kapdi FPTBE, Anand

Table 3.13 Board of Studies, Faculty of Agril. Engg.& Technology

Sr. No.	Name of Member	Designation
1	Principal & Dean, College of Agril. Engg. & Technolgy, Godhra	<i>Ex-Officio Chairman</i>
2	Director of Research & Dean PG, AAU, Anand	<i>Ex-Officio Member</i>
3	Director of Extension Education, AAU, Anand	<i>Ex-Officio Member</i>
4	Professor & Head, Soil & Water Engg. Dept., CAET, Godhra	<i>Ex-Officio Member</i>
5	Prof. & Head, Farm Machinery & Power Engg., CAET, Godhra	<i>Ex-Officio Member</i>
6	Head, Agricultural Process Engg. Dept., CAET, Godhra	<i>Ex-Officio Member</i>
7	Head, Renewable Energy Dept., CAET, Godhra	<i>Ex-Officio Member</i>
8	Dr. B. S. Mathur, Retired Professor & Director (W), IIT, Roorkee), Presently, Technical Advisor, Kalpasar Project (Govt. of Gujarat), Vadodara.	Co-opted Member
9	Dr. Murari Shyam, Director, SPERI, V.V.Nagar, Anand.	Co-opted Member
10	Dr. S. P. Shukla, Principal, CAET, (NAU), Dediapada, Gujarat.	Co-opted Member
11	Dr. K.K. Jain, Professor & Head, FMP Dept., CAET, JAU, Junagadh.	Co-opted Member
12	Er. Pratik Kumar, M. Tech. Student, CAET, AAU, Godhra	Co-opted Member
13	Assistant Registrar, AAU, Anand	<i>Member Secretary</i>

Table 3.14 Board of Faculty, Faculty of Agril. Engg.& Technology

Sr. No.	Name of Member	Designation
1	Principal & Dean, College of Agril. Engg. & Technolgy, Godhra	Chairman
2	Director of Research & Dean PG, AAU, Anand	Member
3	Director of Extension Education, AAU, Anand	Member
4	Professor & Head, Soil & Water Engg. Dept., CAET, Godhra	Member
5	Prof. & Head, Farm Machinery & Power Engg., CAET, Godhra	Member
6	Prof. & Head, Agricultural Process Engg. Dept., CAET, Godhra	Member
7	Professor & Head, Renewable Energy Dept., CAET, Godhra	Member
8	Dr. S. K. Raul, Asst. Prof. CAET, AAU, Godhra	Member
9	Er. R. C. Salunkhe, Asst. Prof. CAET, AAU, Godhra	Member
10	Dr. N. Seth, , Asst. Prof. CAET, AAU, Godhra	Member
11	Shri. S. Chinchorkar, , Asst. Prof. CAET, AAU, Godhra	Member
12	Assistant Registrar, AAU, Anand	Member Secretary

4. DEPARTMENTAL ACTIVITIES

Apart from teaching activities, various research and extension activities were also carried out by the different departments during the year 2015-16. These activities are reported here:

RESEARCH ACTIVITIES

4.1 Department of Farm Machinery and Power Engineering

Table 4.1 Research Projects Undertaken by the Department

Sl. No.	Project Title	Principal Investigator	Period	
			From	To
1.	Development and evaluation of mini tractor operated strip till multi crop planter cum fertilizer applicator	Dr. Pankaj Gupta	2013	Cont.
2.	Development and evaluation of a multipurpose tool bar for mini tractor suitable for maize and wheat crop in the middle Gujarat region	Dr. R. Swarnkar	2013	2016
3.	Development of a modified manual twin wheel weeder	Er. Chirag Jadav	2014	Cont.
4.	Development of a low cost planting unit for conventional plough	Er. K. L. Dabhi	2014	Cont.
5.	Modification of three point hitching system of medium tractor drawn sowing machine to operate by mini tractor	Dr. R. Swarnkar	2015	2016
6.	Modification of three point hitching system of medium tractor drawn semi automatic potato planter	Dr. R. Swarnkar	2015	2016
7.	Development and Evaluation of Electric Motor Operated Vertical Feed Maize Sheller	Er. R. C. Salunke	2015	2016
8.	Development of a low cost power operated maize sheller for small and marginal farmers	Dr. R. Swarnkar	2016	Cont.
9.	Design and development of tractor-drawn potato harvester with integrated cart elevator	Er. R. C. Salunke	2016	Cont.
10.	Determination and analysis of vibration levels on mini farmtractors	Er. M. D. Vora	2016	Cont.

Research Recommendations

Development and evaluation of a multipurpose tool bar for mini tractor suitable for maize and wheat crop in the middle Gujarat region

A mini tractor (15-20 HP) drawn multipurpose till age tool developed by Anand Agricultural University is suitable for seed bed preparation at wapsa conditions under sandy loam soil of Middle Gujarat Agro-climatic zone in a single operation. The implement consisting of iron ploughs for till age and clod crusher is useful for Preparation of seedbed in a single pass with a saving of upto 50% cost of saving for breaking clods in the cost of operation as compared to the cultivator. Therefore it is recommended for the farmers of the region to prepare the seedbed by using the developed implement.

ખેડૂતો માટે ભલામણ

આણંદ કૃષિ યુનિવર્સિટી દ્વારા મીની ટ્રેક્ટર થી (૧૫-૨૦ હો.પા.) ચાલતું ખેડ કરવા માટેનું બહુલક્ષીય સાધન વિકસાવવામાં આવ્યું છે. જેવા વડે મધ્ય ગુજરાત એગ્રોકલાર્ઈમેટિક ઝોનમાં આવેલ ગોરડું જમીનમાં વાપરવાની વ્યવસ્થાએ એકી સાથે વાવણી લાયક જમીન તૈયાર કરી શકાય છે અને કલ્ટીવેટર કરતાં ખર્ચમાં આશરે ૫૦ ટકા જેટલી બચત થાય છે. આ સાધનમાં ખેડ માટે લોખંડના હળ તેમજ ઢેફા ભાંગવા માટે કલાકે કશર લગાડવામાં આવ્યા છે જેથી એકજ ઓપરેશનમાં વાવણી લાયક જમીન તૈયાર થઈ જતી હોવાથી ખેડૂતોને આ સાધનનો ઉપયોગ કરવા ભલામણ કરવામાં આવે છે.



Fabricated proto type multi tillage implement with modified iron ploughs



Multipurpose tillage implement with clod crusher and planker

Modification of three point linkage system of medium tractor drawn sowing machine to operate by mini tractor

By modifying the three point hitching system of the sowing machines designed for medium size tractor (35-40 HP) it can be easily operated by the mini tractor (15-20 HP) and saving upto 20 % in sowing operation can be achieved as compared to the medium sized tractor. A 100 kg front ballasting in the mini tractor will be required. The manufacturers of the seed drill are advised to follow the hitching specifications given below for fabrication of the new seed drill so that the machine can be operated by the mini tractor also : (1) Maximum distance between lower hitching points have to be set in the range of 60-70 cm and (2) Vertical distance between top hitching point and lower hitching point have to be set in the range of 50-60 cm.

ખેડૂતો અને ખેત ઓજારોના નિર્માતા માટે ભલામણ

મધ્યમ સાઈજના ટ્રેક્ટરથી (૩૫-૪૦ હો.પા.) ચાલતા વાવણીયંત્રોના શ્રી પોઈન્ટ હિચીંગ સિસ્ટમમાં ફેરફારથી આજ વાવણીયંત્રોને ટ્રેક્ટરમાં (૧૫-૨૦ હો.પા.) આગળના ભાગે ૧૦૦ કિલો વજનમૂકી (ફ્રન્ટબાલાસ્ટિંગકરી) સહેલાઈથી ચલાઈ શકાય છે. આં વાવણીના ખર્ચમાં પણ મધ્યમ ટ્રેક્ટરથી ચાલતા વાવણીના યંત્રો કરતાં આશરે ૨૦ ટકા જેટલી બચત કરી શકાય. ટ્રેક્ટરથી ચાલતા વાવણી માટેના યંત્રોનો ઉત્પાદકોને સલાહ આપવામાં આવે છે કે, વાવણીના યંત્રોનું હિચીંગ નીચે આપેલ ૫ મુજબ રાખવામાં આવે તો મધ્યમ ટ્રેક્ટર દ્વારા સંચાલિત વાવણીયંત્રોને મીની ટ્રેક્ટરથી પણ ચલાવી શકાય છે. (૧) લોઅર હિચીંગ પોઈન્ટ વચ્ચે મહત્તમ ૬૦-૭૦ સેમી. નું અંતર અને (૨) ટોપહિચીંગ પોઈન્ટ અને લોઅર હિચીંગ પોઈન્ટ વચ્ચે વર્ટિકલ અંતર ૫૦-૬૦ સે.મી. રાખવાની ભલામણ કરવામાં આવે છે.



Measurement of hitching systems of various sowing/planting machines



Mini tractor with modular maize planter and Seed cum fertilizer drill (Khedut)

Development and evaluation of mini tractor drawn semiautomatic potato planter

A mini tractor (15-20 hp) drawn two row semi-automatic potato planter developed by AAU is recommended for the farmers for planting the potato crop. The planter places the potato tubers and fertilizer at appropriate depths in a single operation. In the planter the distance between two rows (45-70 cm) can be adjusted as per requirement. The use of this planter with mini tractor will save about 40% cost of the potato planting as compared to the medium size tractor (35-40 hp) operated planter. The cost of the planter is estimated as Rs. 26000/-

ખેડૂતો માટે ભલામણ

આણંદ કૃષિ યુનિવર્સિટી દ્વારા મીની ટ્રેક્ટરથી (૧૫-૨૦ હો.પા.) ચાલુતું બે ચાલવાળું સેમીપ્લાન્ટરનો ઓટોમેટિક બટાટાની વાવણી કરવાનું મશીન વિકસાવવામાં આવેલ છે જે બટાકાનું પાક ઉગાડતા ખેડૂતોને ઉપયોગ કરવાની ભલામણ કરવામાં આવે છે.

આ પ્લાન્ટરથી બટાટાની વાવણી ખાતે અને ખાતરની ઓરણી યોગ્ય ઊંડાઈએ એકી સાથે થાય છે. આ પ્લાન્ટરથી બે ચાસ વચ્ચેનું અંતર જરૂરીયાત મુજબ (૪૦-૭૦ સે.મી.) ગોઠવી શકાય છે. આ પ્લાન્ટરનો ઉપયોગ કરવાથી માધ્યમ સાઈઝના ટ્રેક્ટર (૩૫-૪૦ હો.પા.) થી ચાલતા પ્લાન્ટર કરતા વાવણીના ખર્ચમાં આશરે ૪૦ ટકા જેટલી બચત થાય છે.

આ પ્લાન્ટરની અંદાજિત કિંમત રૂ. ૨૬,૦૦૦/- જેટલી થાય છે.



Developed prototype of two row semiautomatic potato planter



Potato planter under operation

4.2 Department of Soil and Water Engineering

Table 4.2 Research Projects Undertaken by the Department

Sl. No.	Project Title	Principal Investigator	Period	
			From	To
1.	Integrated land and water resources management in the Panam canal command for maximization of net annual return	Dr. S. K. Raul	2015	Cont.
2.	Impact Assessment of Future Climate Change on Water Availability in the Semi -arid Middle Region of Gujarat, India	Dr. M. K. Tiwari	2013	2016
3.	Daily and monthly rainfall forecasting using extreme learning machines (ELMs), ANN with genetic algorithm (GANN) in the middle region of Gujarat	Dr. M. K. Tiwari	2016	Cont.

4.3 Department of Agricultural Process Engineering

Table 4.3 Research Projects Undertaken by the Department

Sl. No.	Project Title	Principal Investigator	Period	
			From	To
1.	Production Technology for Preparation of Wood Apple (<i>Limonia acidissima</i>) Jam	Mrs. S. K. Modi	2013	2016
2.	Development of appropriate harvest and post harvest technology for custard apple for tribal area of Gujarat	Er. K. R. Jethva	2015	Cont.
3.	Development of rapid measurement system for angle of repose of grains	Dr. Navneet Kumar	2016	Cont.

4.4 Department of Renewable Energy Engineering

Table 4.4 Research Projects Undertaken by the Department

Sl. No.	Project Title	Principal Investigator	Period	
			From	To
1.	Development of biomass combustion based drying systems for ginger and turmeric.	Dr. D. K. Vyas	2014	Cont.
2.	Design and development of a throat type up draft biomass gasifier for thermal application.	Dr. D. K. Vyas	2014	2016
3.	Development of Matlab based programming of seed properties	Mrs. Hetal Tanna	2016	Cont.
4.	Development of multipurpose solar dryer cum cooker	Er. Sravankumar	2016	Cont.

Research Recommendations

Design and development of a throat type up draft biomass gasifier for thermal application

The throat type updraft biomass gasifier developed by AAU is recommended for thermal applications at community kitchen, restaurants, dhabas and similar establishments owners who are interested in shifting to biomass gasifier system. The developed gasifier can be successfully operated using maize cobs, sized wood and saw dust briquettes. Maize cob is found more suitable for throat type updraft gasifier as compared to other two fuels. The newly developed gasifier remains about 50% cheaper in operation as compared to that by LPG system.

ભલામણ : સામુહિક રસોડા, હોટેલ તથા ઢાબા જેવા સંસ્થાઓના સંચાલકોને આણંદ યુનિવર્સિટી, આણંદ દ્વારા વિકસાવાયેલ મકાઈનાં લાટીયા, લાકડાનાં ટુકડા અને વેરની બ્રિકેટસ ઉપર ચાલતા થ્રોટ ટાઈપ અપ ડ્રાફ્ટ બાયોમાસ ગેસીફાયર નો ઉપયોગ કરવાની ભલામણ કરવાવામાં આવે છે. આ ગેસીફાયરના ઉપયોગથી એલ.પી.જી. ગેસની સરખામણીએ ૫૦%ટકા સુધીનો બળતણ ખર્ચ બચાવી શકાય છે તથા મકાઈનાં લાટીયા બીજા બળતણ કરતા વધારે અનુકુળ છે.



Demonstration of Developed throat type updraft bio-mass gasifier.

4.5 Externally Funded Projects

Apart from the departmental Projects, some activities under externally funded projects were also carried out during the year 2015-16.

Sl. No.	Project Title	Principal Investigator	Period		Funding Agency	Budget Estimate/outlay
			From	To		
1.	Advanced Centre for Research and Trainers Trainings on Agricultural Engineering Based Interventions	Dr. M. L. Gaur	2012	Contd.	ADP	Rs.1240 lakhs
2.	Developing a Watershed based Conclave for Experimental Learning at Kakanpur	Dr. M. L. Gaur	2012	Contd.	ADP	Rs.542 lakhs
3.	Developing Model Villages Incorporating Farm Mechanization and Watershed Concepts	Dr. M. L. Gaur	2012	Contd.	ADP	Rs. 840 lakhs
4	Measurement to Management (M2M): Improved Water Use Efficiency and Agricultural Productivity through experimental Sensor Network	Dr. M. L. Gaur (Co-PI)	2015	Contd.	Information Technology Regulatory Authority (ITRA) Govt of India	Rs. 75 lakhs

4.6 Extension Activities

The extension activities carried out the staff members of the College during the year are as below:

Sr. No.	Detail of activity	Date	Place	Beneficiaries
1.	Training and distribution programme	19/06/2015	CAET, Godhra	49
2.	Training cum demonstration program	20/06/2015	Navagam, Vejalpur	65
3.	Training cum demonstration program	09/09/2015	Devgarh Baria	135
4.	Training cum demonstration program	30/09/2015	Agara Village, Santrampur	61
5.	Training cum demonstration program	11/03/2016	Kankanpur Farm, Panchmahals	120

4.6.1 Distribution programme of Maize sheller

A training and distribution programme was organized by MMRS, Maize on 19th June 2015 at Conference hall, College of Agricultural Engineering and Technology, Godhra. Dr. K. B. Kathiria, Director of Research & Dean PG Studies, chaired the inaugural session. Distribution of maize shellers procured under the project “Tribal Sub Plan (TSP): Encouraging Tribal Youth/Women for adopting Proven Agricultural Engineering Technology on Mechanization, Value Addition & Resource Conservation in Middle Gujarat” too along with distribution of weeder from MMRS maize was also suggested. Tubular maize shellers were distributed to 49 ST farmers for the encouragement of adopting proven technologies.



4.6.2 Demonstration cum Training program on Agricultural Implements

A training cum demonstration program was organized on 20th June 2015 by College of Agricultural Engineering and Technology Godhra in association with Krishi Vigyan Kendra, Panchmahals at Navagam, Vejalpur under two projects “Tribal Sub Plan (TSP): Encouraging Tribal Youth/Women for adopting Proven Agricultural Engineering Technology on Mechanization, Value Addition & Resource Conservation in Middle Gujarat” and “Developing a model village incorporating farm mechanization and watershed concepts”. Dr. M. L. Gaur, Principal, CAET, Godhra chaired the training program. Dr. (Mrs.) Kanaklata, Programme Coordinator, KVK Panchmahals; Dr. Navneet Kumar, Associate Professor, CAET; Er. R. C. Salunke, CAET and Dr. Jaipal Sinh K. Jadav, SMS (Extension Education), KVK also shared the Dias and coordinated the program. The Chairman emphasized the use of proven agricultural engineering technologies and shared his vast experience with farmers. Dr. Kanaklata emphasized on the proper use of implements on the farms and guided according to the present weather conditions. About 100 tribal farmers/women were present in the programme. Later, equipments procured under the said projects were distributed to the farmers for the effective use in their agricultural fields. Er. Jagdish Chavda, SRA and Sh. Nirav D. Sharma, Lab. Technician along with other supporting staff coordinated the distribution of agricultural implements. During the program the basic objectives were shared with the tribal farmers, which comprises more than 75 percent female & youths. Practical demonstration & field operations of variety of farm machines and tools were distributed covering broader groups. The machines/equipments distributed comprised below given items which were mostly procured from Central Institute of Agril Engineering (ICAR) Bhopal. On-field operations and functioning of equipments were too conducted by involving beneficiaries as well as their family members for extended utilities of these modern farm equipments and machines.





4.6.3 Demonstration cum Training program on Agricultural Implements

A training cum demonstration program was organized on 09th September 2015 by College of Agricultural Engineering and Technology Godhra in association with Tribal Training Centre, Devagadhbaria under two projects “Tribal Sub Plan (TSP): Encouraging Tribal Youth/Women for adopting Proven Agricultural Engineering Technology on Mechanization, Value Addition & Resource Conservation in Middle Gujarat” and “Developing a model village incorporating farm mechanization and watershed concepts” at Tribal Training Centre, Devagadhbaria. Dr. M. L. Gaur, Principal, CAET, Godhra chaired the training program. Dr. G. J. Patel, Unit Head, Tribal Training Centre, Devagadhbaria, Dr. Pankaj Gupta, Associate Professor; Dr. Navneet Kumar, Associate Professor; Dr. S. G. Vahora, Associate Professor, Er. R. C. Salunke, Asst. Professor and Dr. G. N. Thorat, Asst. Professor along with other faculty and staff also shared the Dias and coordinated the program. The Chairman emphasized the use of proven agricultural engineering technologies and shared his vast experience with farmers. About 135 tribal farmers/women were present in the programme. Later, equipments procured under the said projects were distributed to the farmers for the effective use in their agricultural fields. Er. Jagdish Chavda, SRA and Sh. Nirav D. Sharma, Lab. Technician along with other supporting staff coordinated the distribution of agricultural implements.





4.6.4 Demonstration cum Training program on Agricultural Implements

In continuation with the previous program, another training cum demonstration program was organized on 30th September 2015 by College of Agricultural Engineering and Technology Godhra in association with Tribal Training Centre, Devagadhbaria under two projects “Tribal Sub Plan (TSP): Encouraging Tribal Youth/Women for adopting Proven Agricultural Engineering Technology on Mechanization, Value Addition & Resource Conservation in Middle Gujarat” and “Developing a model village incorporating farm mechanization and watershed concepts” at Agara Village, Taluka: Limkheda, Distt. Dahod. Dr. M. L. Gaur, Principal, CAET, Godhra chaired the training program. Dr. G. J. Patel, Unit Head, Tribal Training Centre, Devagadhbaria, Dr. Pankaj Gupta, Associate Professor; Dr. Navneet Kumar, Associate Professor; Er. R. C. Salunke, Asst. Professor and Dr. G. N. Thorat, Asst. Professor along with other faculty and staff also shared the Dias and coordinated the program. The chairman emphasized the use of agricultural implements for betterment of the farmers. About 61 farmers/women were present in the programme. During the program the basic objectives and genesis of the project were shared with the farmers. Practical demonstration & field operations of farm machines and tools distributed were covered. Later, equipments procured under the said projects were distributed to the farmers for the effective use in their agricultural fields. Er. Jagdish Chavda, SRA and Sh. Nirav D. Sharma, Lab. Technician along with other supporting staff coordinated the distribution of agricultural implements.





4.6.5 One day workshop and training programme

One day field exposure workshop on experimental learning and demonstration of agricultural engineering technologies organized under the projects by College of Agricultural Engineering and Technology, at Instructional Research Farm, Kankanpur on 11th March 2016. Students of final year and PG programme along with a number of farmers participated in the event. DR. M. L. Gaur, Principal; Dr. Pankaj Gupta, HOD (RE); Dr. Navneet Kumar, HOD (APE); Dr. Neeraj Seth, Asst. Prof.; Dr. M. K. Tiwari, Asst. Prof.; Er. Kapil Mandloi, Ass. Prof., Sh. G. J. Kamani; Asst. Prof., Sh. K. L. Dabhi, Asst. Prof. coordinated the programme. Dr. M. L. Gaur, Principal explained the watershed concept to the farmers and students through easy approach. All the persons interacted with the farmers and students and demonstrated the agricultural engineering technologies on the farm. Er. Jagdish Chavda, SRA; Er. S. J. Pargi, SRA; Sh. Nirav Sharma, Lab. Tech. assisted in organizing the event.



5. CAPACITY BUILDING PROGRAMS

Table 5.1 Training attended by the Faculty

Sr. No.	Name of Teacher/Scientist	Participated	Duration	
			From	To
1	Er. K. L. Dabhi	21 days summer school on “Numerical Techniques and its application to Agricultural & Food Engineering Problems” at FPT & BE, AAU, Anand.	17/6/2015	7/7/2015
	Er. M. D. Vora			
2	Er. M. D. Vora	Training Programme for NSS Programme Officers (7 days) at ETI, Gujarat Vidyapith, Ahmedabad (Gujarat) India	04-08-2015	10-08-2015
3	Mr. Gautam J Kamani	Training: “ICT Application In Agriculture & Allied Fields” at EEI, Anand	18-01-2016	23-01-2016
4	Dr. M. K. Tiwari	21 days winter school on “Implications of Climate Change on Pedagogical Issues of Water Resources Management” for delivering lectures	22/9/2015	23/9/2015

Table 5.2 Workshop/Seminar/Symposium/Conference/Convention attended

Sr. No.	Name of Teacher/Scientist	Participated	Duration	
			From	To
1	Er. K.L. Dabhi	Participated one day’s seminar on “Instrumentation for food quality analysis” at CAET, AAU, Godhra.	20/8/2015	20/8/2015
2	Er. K. R. Jethva	National seminar on “ <i>Emerging Trends in Food Quality and Safety</i> ” organized by College of FPT&BE, AAU, Anand in association with AFST(I) and FDCA, Gujarat.	15/10/2015	16/10/2015
3	Er. K.L. Dabhi	Participated one day’s seminar on “Energy Conservation Awareness” at CAET, AAU, Godhra.	9/2/2016	9/2/2016
4	Dr M L Gaur	29 th National Convention of Agricultural Engineers on “ <i>Agro-Tech Industries: Status, Scope and Strategies for Food Security</i> ” organized by The Institution of Engineers (India) in association with Anand Agricultural University, Anand.	20/02/2016	21/02/2016
5	Dr. Pankaj Gupta			
6	Er. K. R. Jethva			
7	Er. R. C. Salunkhe			
8	Dr. M. K. Tiwari			
9	Dr M L Gaur	Attended one day Pre Conference Workshop on ‘Recent Trends in Geo-Informatics Techniques and Applications’ during International Conference on “Water, Environment, Energy & Society” organized by Texas A & M University, USA, IC -WaRM Australia , and IAEA Austria, at AISECT University, Bhopal	14/03/2016	14/03/2016
10	Dr M L Gaur	Actively participated and delivered presentation during ITRA-Water , Feedback Workshop organized by Media Lab (ITRA, Ministry of IT, Govt of India) held at Central University of Hyderabad	17/7/2015	18/7/2015

11	Dr M. L. Gaur	Participated one day's seminar on " Experimental learning and demonstration of agricultural engineering technologies organized under the projects"	11/3/2016	11/3/2016
12	Er. K.L. Dabhi			
13	Dr M L Gaur	Participated and Chaired two important Technical Sessions of International Conference on "Water, Environment, Energy & Society" organized by Texas A & M University, USA, IC-WaRM Australia , and IAEA Austria, at AISECT University, Bhopal, India	15/03/2016	18/03/2016
14	Mr. Gautam J Kamani	Society of Extension Education Gujarat organized National Seminar, JAU, Junagadh	18/3/2016	19/3/2016
15	Dr M L Gaur	International Conference on "Water, Environment, Energy & Society" organized by AISECT University, Bhopal, India and Texas A & M University, USA	15/03/2016	18/03/2016
16	Dr. D.K. Vyas			

Table 5.3 Lecture delivered

1	Dr M L Gaur	Delivered customized couple of lectures ('Introduction to Finite Element Method' & 'Finite Element Method and its Applications to Real World Problems') during ICAR Summer School namely "Numerical Techniques & Its Application to Agricultural and Food Engineering Problems" held at College of Food processing Technology & Bio Energy, Anand Agril University Anand Gujarat	17/6/2015	7/7/2015
2	Dr M L Gaur	Participated and delivered specific lectures during specified short training for Executive Engineers, Superintending Engineers & Chief Engineers from WASMO, GWSSB, and PHE departments of Govt of Gujarat with Grassroots level staff, on 'Assessing Constraints for Integrated Management of Agrarian Water from Quantitative Perspectives' ; 'Assessing Constraints for Integrated Management of Agrarian Water from Qualitative Perspectives'	05-12-2015	21-12-2015

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 Ghodasara, Y.R. ; Kamani G.J.; Kamani, K.K. and Parag, M.M. (November-2015), An Experiment to Generate Thread Priority Map Table for Java Thread and Windows Operating System Thread, IJARCSSE (ISSN: 2277 128X), Volume 5 , Issue 11, pp. 496-500.
- 2 Parmar, R.S.; Kathiriya, D.R.and Kamani G.J. (December 2015), New ICT in agriculture: Opportunities and Challenges, Guj. J. Ext. Edu., Volume 26 : Issue 1, pp.14-17.
- 3 Chauhan N. and Jethva K.R. (2016). Drying characteristics of banana powder. *Indian Journal of Science*, 23(77): 75-88.
- 4 Vora, M.D., Parmar, R.P. and Gunjaria, H.M. (2015). Comparative Performance Evaluation of Paddy Harvesting. *Trends in Biosciences* 8(19). 5411-5416.

6.2 Research Papers Published- International

- 1 Jethva K.R and Sharan G. (2016). Assessment of environment control in arid area greenhouse coupled with earth tube heat exchanger. *Current World Environment*, 11(1): 243-250.
- 2 Jethva K.R. and Varshney A.K. (2016) Design and development of reciprocating type Cumin Cleaner cum Grader. *Agricultural Mechanization in Asia, Africa and Latin America*, 47(1): 7-12.
- 3 Jethva K. R. and Varshney A.K. (2015). Performance evaluation of developed reciprocating type cumin cleaner cum grader. *International Journal of Agricultural Engineering* 8(2): 151-159.
- 4 Sayyad, F.G., Sardar, N.R., Rathod, J.P., Baria, U.A., Yaduvanshi, B.K., Solanki, B.P. and Chavda, J .J. (2015). Design and development of solar cooker cum dryer. *Current World Environment*, Vol. 10(3): 985-993.
- 5 Vyas, D.K., Kapdi, S.S. Swarnkar R. and Seth N. (2015). Development and evaluation of updraft biomass gasifier for thermal application. *Elixir Thermal Engg.* 81 (2015) 31509-31513.
- 6 Vyas, D.K. Kapdi, S.S., Bhandari H.D. and Varia S.V. (2015). Evaluation of biomass based combustor for hot air generation using maize cobs. *International Journal of Agricultural Engineering*, Vol. 8 (1):101-106.
- 7 Vyas, D.K., Sayyad, F.G., Khardiwar M.S. and Kumar S. (2015). Physicochemical properties of briquettes from different feed stock. *Current World Environment*, Vol. 10(1): 263-269.
- 8 Yadav R., Prasad, N. Gupta P. and Vadher, A.L. (2015) Book Review: Anthropometric and strength data of Indian agricultural workers for farm equipment design, edited by L. P. Gite, J. Majumder, C. R. Mehta, A. Khadatkar (Eds.). CIAE, Bhopal, India (2009). Price Rs. 500.00, ISBN: 978-81-909305-0-5, *Current Science*. Vol 108(10) p: 1944
- 9 Kumar, N.; Singh, A.K.; Shrivastava, A. and Prajapati, U.(2016) Optimization of Parameters for Ivy Gourd Juice based soft drink, *International Journal of Advanced Scientific Research and Management*, 1(2), 41-45.
- 10 Makwana, J., Tiwari, M.K.(2016). Prioritization of agricultural sub-watersheds in semi arid middle region of Gujarat using Remote Sensing and GIS. *Environmental Earth Sciences*. 75(2), 1-12.
- 11 Singh, A.; Sharma, H. K.; Kumar, N.; Upadhyay, A. and Mishra, K. P. (2015) Thin layer hot air drying of bael (*Aegle marmelos*) fruit pulp, *International Food Research Journal*, 2(2), 398-406.

6.3 Research Papers Presented- National

- 1 Salunkhe R C, Swarnkar R, Chaudhary S B and Patel K P (2016) Modifications and performance Evaluation of Vertical Feed Pedal Operated Maize Sheller. Proceeding of 29th National convention of Agricultural

Engineers, 2016 organized by The Institution of Engineers (India) Gujarat State Centre at AAU, Anand during February 20-21, 2016

2. Gupta, P. and Shukla K.S. 2016. Development of wavy disc type pto powered vertical tillage implement for mini tractor. Paper presented at 29th National Convention of Agricultural Engineers, The Institution of Engineers, Anand, 20-21 February, 2016.
3. Bhimani, J.B., Patel, S.K., Trivedi, M.M., Swarnkar, R., Gupta, P. and Yaduvanshi, B.K.. 2016. Optimization of operational parameters of picking type seed metering device for lady's finger seeds. Paper presented at 29th National Convention of Agricultural Engineers, The Institution of Engineers, Anand, 20-21 February, 2016.

6.4 Books/Book Chapters

1. Vora, M. (2015). Study Manual for Farm Machinery and Equipment (Course-I). LAP LAMBERT Academic Publishing. OmniScriptum GmbH & Co. KG, ISBN: 978-3-659-81125-8.
2. Gaur, M.L. (2015). Policies Towards Warehousing and Marketing. In: "India's Perspective Policy on Agriculture". Eds: M C Varshneya and Anil Javalekar, Published by Institute of Rural Development and Education, Uthhan Krushi Sanshodahan Sanstha, Pune, Maharashtra with forwards from Hon'ble Prime Minister of India. Chapter-24, pp 328-362.

6.5 Popular Articles

1. Popular Gujarati Article on "Khetpedasonu Processig Dwara Mulyavruddhi ane Tenu Mahtav" published in Krishi Jivan Magazine in the month of December 2015.
2. Popular Gujarati Article on "Khorakma thati Bhelshel thi Bachiye" published in Krishi Govidhya Magazine in the month of January 2016

6.6 Awards

1. Er. M.D. Vora, Assistant Professor, Department of Farm Machinery & Power Engineering received Best Teacher award for the Agricultural Engineering Faculty at AAU, Anand



7. STUDENTS' WELFARE ACTIVITIES

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

7.1 Hostel Facility

Separate well-equipped boys' and girls' hostels to accommodate U.G & P.G., Male and female students exist on the campus, which provide residential facilities to the students, under the control of the College of Agricultural Engineering and Technology. During the reporting period 177 (UG & PG) boys students were staying in the Aruni Boys Hostels, Staff Quarter and 10 girls students (UG & PG) were staying in the Aditi Girls hostel. Each hostel is having a T.V., Guest and Reading Room, R.O. Water Cooler, Solar Water Heating System and Mess facilities. Some local students were permitted to reside in the city with their parents as per university rules. During the reporting period Dr. Navneet Kumar worked as Rector and Er. Sravankumar worked as Assistant Rectors.

7.2 Mess Management

During the reporting period in all the hostels messes were run by the boarding students. Each hostel provided with all the required items like dinning furniture, kitchen vessels, R.O. Water Cooler, fridges, cooking gas connections, etc. for running the messes. For smooth running of mess and to provide nutritious and delicious food to the students, a weekly menu was prepared by the mutual understanding of students in the presence of college authority. Moreover, Principal, Rector and Assistant Rectors supervise the hostel for functioning of mess, quality of food and mess dues occasionally.

Table 7.1 Staff Advisors of Students Representative Council

Sr. No.	Name	Designation	Post and activities in SRC
1	Dr. M.L.Gaur	Principal	President
2	Er. C. Jadav	Assistant Professor	Chairman, Outdoor Sports Activities
3	Er. D.K.Vyas	Assistant Professor	Indoor Sports Activities
4	Dr. Neeraj Seth	Assistant Professor	Co-Chairman (SRC) & Planning & Adventure activities
5	Ms. Hetal Tanna	Assistant Professor	College Cultural activities
6	Mr. Hardik Sharma	Assistant Professor	Literary activities
7	Er. J. Sravankumar	Assistant Professor	College Magazine Activities

Table 7.2 Student's representatives of Students Representative Council

Sr. No.	Name	Semester	Activities in SRC
1	Balas Dudabhai B.	7 th B.Tech	General Secretary
2	Patel Vikaskumar B.	5 th B.Tech	Joint Secretary
3	Neizevind Mor	1 st Ph.D.	Ladies representative
4	Bhanderi Hepin	3 rd M.Tech.	Boys representative
5	Deepak Kumar	1 st B.Tech	1 st year class representative
6	Patel Darshak S.	3 rd B.Tech	2 nd year class representative
7	Satasiya Vaibhavkumar H.	5 th B.Tech	3 rd year class representative
8	Gaglani Hemang	7 th B.Tech	4 th year class representative
9	Nayi Pratikkumar N.	3 rd B.Tech	Volleyball and basketball representative
10	Patel Jayraj R.	3 rd B.Tech	Debate and elocution representative
11	Shira Jaydip A	3 rd B.Tech	Kho-kho and kabaddi representative
12	Panchal Purnimaben M.	7 th B.Tech	Cultural activities representative
13	Hapani Mitanshu G.	3 rd B.Tech	Cricket representative
14	Vadhvana Urvin R.	3 rd B.Tech	Magazine representative
15	Deepak Kumar	1 st M. Tech.	Reading & television room representative
16	Chaudhary Hardikkumar Ashokbhai	5 th B.Tech	Table tennis representative
17	Ghetiya Jemin M.	3 rd B.Tech	Athletics and weight lifting representative

7.3 Physical Education Programme

7.3.1 University / Inter-University Athletic meet / Youth festival

(1) The students of the College had participated in the following inter collegiate sports / cultural events during the year-2015-16

- Volleyball
- Kabbdi
- Table Tennis
- Kho-Kho
- Cricket
- Essay/ Debate/ Elocution
- Chess
- Athletic
- Cultural Competitions
- Badminton

(2) During the reporting period the students of this college got success in different inter collegiate competitions. The details of their achievements are given below-

Essay --- 1st Position
 Garba night --- 2nd Position

- In Volley Ball, the college team secured runner up position. one students of our college has got Fir st prize in Essay Writing Competition.

(3) The following students of this college were selected in the respective sport / event to represent our university in the Inter University Sport Meet at State and National Level.

Table 7.3 Performance of Students in various sports/games

Sr. No.	Game	No. of students selected
1	Kabaddi	-
2	Chess	-
3	Kho-kho	3
4	Cricket	-
5	Basket Ball	-
6	Volley Ball	3
7	Table Tennis	-
8	Badminton	-

(4) Our students celebrated different occasions and festival at college level as given below

- Guru Purnima
- Cultural Evening
- Ganesh Mahotsava
- Engineer's Day
- Fresher's Party
- Sharad Purnima
- Farewell Party

7.3.2 Sports and games

During the year 2015-16, the following games for inter collegiate tournaments were organized by the college at university level on the following dates:

- (i) Kho-kho ----- 23-24/10/2015

Table 7.4 Intercollegiate indoor and outdoor games

Sr. No.	Sports	Intercollegiate	
		College & Place	Date
1	Chess	IABMI, Anand	27/08/2015
	Table Tennis		
2	Badminton	BACA, Anand	1-2/09/2015
3	Cultural Programme, Essay, Debate and Elocution	Veterinary Science, Anand	29-30/09/2015
4	Volleyball	Agri. College, Vaso	30/11/2015
5	Basketball	Agri. Information Technology, Anand	26/10/2015
6	Kho-Kho	CAET, AAU, Godhra	23/10/2015

7	Kabbadi	Dairy Science College, Anand	23/10/2015
8	Cricket	FPTBE College, Anand	10-12/02/2016
9	Football	Horticulture College, Anand	06/02/2016
10	Athletic	Veterinary Science, Anand	01-02/03/2016

7.4 Other Programs organized at CAET

7.4.1 Celebration of 1st International Yoga Day

First International Yoga day was celebrated at College of Agricultural Engineering & Technology, AAU , Godhra on 21 June, 2015 from 7:00 to 7:33 am. The program of Yoga practicing was organized as NSS and SRC activity. Almost all Officers, Technical and non -technical staff members, contractual labour working in college and at Kankanpur Research farm and students were voluntarily remained present in the program. Initially, the Registration of all participants was done then all were informed and introduced about the theme and program of Yoga day. All the participants practiced different *Yogasans, Pranayam & Dhyan* as per the instruction given through the DVD.

7.4.2 Cultural Program

A grand cultural evening was organized by students of CAET Godhra on 21st August, 2015. It was initiated with a hard work and inputs from young students after long preparations in different spheres of knowledge & entertainments. The grand function was arranged inside grand & newly constructed auditorium of CAET Campus. After spiritual songs and dances, students gave a plethora of items to entertain the audience and also to reflect their hidden potentials towards various cultural ingredients. Some of the performances remained of professional level, which were applauded and earmarked for their probable encouragement to put on bigger platforms like All India Radio etc.

7.4.3 Personality Development Programme “Igniting Minds”

The two-day short duration training programme – ‘Igniting Minds’ was organized at CAET from 24-25 August, 2015. The facilitator of the programme, Ms. Radha, Head - Content Services SMART Series Bangalore at onset of briefly presented the overview on personality development training programme including its relevance and in depth contents to be covered in next 2 days at CAET with some activities

7.4.4 Celebration of Ganesh Puja

To seek the blessing of Lord Ganesh, students and faculties of College of Agricultural Engineering & Technology, Godhra Celebrated Ganesh Mahotsav at newly constructed College auditorium. This spiritual function was planned and initiated with Ganpati Eshthapana on 17th September,2015 (Ganesh Chaturthi) followed by explicit programs on specific days including Chappan bhog, Vishesh Bhog etc. Also the students organized a "Candle Aarti" on 18th September, 2015. On each day , after aarti, students used to play folk dances, garbaa and other celebrations, to mark the imortance and joyfull existence of ganpatee pooja. On the occasion of the Ganesh Visharjan, students organized a "Samuh Aarti" on Tuesday, 22nd September, 2015 before proceed for Visharjan.

7.4.5 Engineers Day” Celebration

On 15th September, 2015, a splendid daylong function was organized at College of Agricultural Engineering & Technology, Godhra, to celebrate “The Engineers Day”, in the remembrance of Dr. Mokshagundam Visweswaraya, world renowned ever first Indian civil engineer, recipient of several prestigious recognitions, including awards like “Bharat Ratna”. A systematic set of activities were conceived and organized making several groups of students with common thoughtful tasks, correlating the engineering and its true applications with emerging burning issues of society. The prevailing challenges in regards to water, energy, climate, and socioeconomic aspects were well reviewed by UG and PG students, followed by long debates and thoughts. Later after having more than 17 groups, these equal mind young, very nicely transformed their visionary thoughts and ideas into pictorial presentations by presenting many quality posters using hands, colours and artistic ingredients thereupon. The celebration was finished with another inspirational speech as well as an internal oath by Agricultural Engineering students and the faculty for making their minds to extend best possible benefits to farmers and other agrarian society of India.

7.4.6 Fresher’s Party

To welcome the new comers, 2nd year students organized fresher’s party on 1st October, 2015. There were seven events including welcome drama, singing, mime, drama, group dance, cultural dance and funny dance. All participants performed awesome and were being appreciated.

7.4.7 Celebration of Gandhi Jayanti

The day was organized by NSS on 2nd of October in the remembrance of Mahatma Gandhi. Day was started with oath taken at 10:30 AM. Oath was taken by all presented people of Peace and non-violence. After oath taken, Students went to the college gate for peace demonstration with banner in their hands. Students gave messages of Mahatma Gandhiji’s life, like “*Only Need Not Greed*”, “*Truth always wins*”, etc. Everyone appreciate it.

7.4.8 Sharad Purnima/Sharad Punam Celebration

Sharad Purnima/Sharad Punam programme was celebrated by CAET, Godhra students on 27th October 2015 at FMPE implements shed with a good arrangement. All the students are associated with this programme and perform very well in competition and management. In this competition, prizes were given to the first 3 well played and 3 well dressed players. Students had sponsored for prizes and refreshment.

7.4.9 Local Seminar on Empowering Women

A seminar with theme “Empowering young women: to educate and empower themselves to take action on key issues that effect their lives” was organized on 05/03/2016 at Conference hall of CAET. For this, two lady PSI’s of Godhra Ms. Sejal D.Patel. Ms. Aruna N.Patel were the chief guests. All together there were more than 100 participants attended the seminar. The chief guests of the day made the students recognize their potential to reach great heights of success. They also made girl students realize, they are no more less than any boy/men and can compete in any field.

7.4.10 Industrial tour

A tour was organized for final year B. Tech. students of CAET, Godhra during 18 January to 01 February 2016. Dr. Pankaj Gupta, Asso. Prof. (FMP) & HOD (RE), Prof. Hardik Sharma, Asst. Professors and Er. (Ms.) Khyati Vyas, SRA coordinated the tour. They visited Mech Air Industries, GGRC, Vadodara; Am bica Industries, Surat; Navsari Agricultural University, Navsari; Jain Irrigation Systems Limited, Jalgaon; AHM Agro Food Processing Pvt. Ltd., Rahuri Mahatma Phule Krishi Vidyapeeth, Rahuri; Krishi Vigyan Kendra, Yashwantrao Chavan Maharashtra Open University, Nashik; Sahyadri Farms, Nasik; Petson foods, Navsari; Satva Organic, Anand; Amul Dairy; Anand.

7.4.11 Blood donation programme

A programme entitled “Donate Blood Save Life” was conducted on 17th February 2016 under NSS at College of Agricultural Engineering and Technology, Godhra.

7.4.12 Thalassemia Awareness Campaign

A programme was oraganized for Thalassemia awareness campaign on 17th February 2016 under NSS at College of Agricultural Engineering and Technology, Godhra.

7.4.13 Republic Day celebration

Republic day was celebrated at College of Agricultural Engineering and Technology, Godhra on 26th January 2016. The principal, faculty members, staff and students remained present in the programme. Dr. M. L. Gaur, Principal conveyed his wishes on the occasion and addressed the gathering. The cultural activities were also performed during the occasion.

7.4.14 Commemoration of Shahid Din

A two-minute silence in memory of Indian martyrs was observed on 30th January 2016 by the faculty members, staff and students of College of Agricultural Engineering and Technology, Godhra. Faculty members also informed students about the importance of independence during the event.

7.4.15 NSS Special Camp

NSS special camp was organized at village Kotada, Ta: Godhra, Dist. Panchmahals during 25th – 31st March 2016. About 50 students participated in various events organized during the programme. Dr. S. H. Akbari, Director of Students Welfare and Dr. M. L. Guar, Principal, CAET, Go dhra also graced the closing ceremony of the special camp.



Inter collegiate chess competition



Inter collegiate table tennis competition



Inter collegiate volley ball competition



Inter collegiate kabbadi competition



Cultural evening programme



Cultural evening programme



Sharad Purnima celebration



Sharad Purnima celebration



Yoga day



Ganesh Mahotsava celebration



Program on blood donation



Plantation day program



Celebration of Gandhi Jayanti



NSS special camp



Study tour of final year students



Study tour of final year students

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. Er. R. C. Salunkhe Assistant Professor, Department of FMPE, CAET Godhra worked as the In-charge, Training and Placement cell.

Table 8.1 Details of 4th / 6th Semester Students Deputed for One month Summer Training during the year

Sr. No.	Name of Organizations offered Training	No. of Students	Period	Duration (days)
1	Northern Region Farm Machinery Training & Testing Institute, Tractor Nagar, Sirsa Road, Hissar (Haryana)	05	June 2016	29
2	Central Region Farm Machinery Training & Testing Institute, Tractor Nagar, Budni, M. P.	03	June 2016	29
3	North Eastern Region Farm Machinery Training & Testing Institute, Biswanath Charali, Sonitpur, Assam	05	June 2016	29
4	Central Institute of Agril. Engg., Nabi Bagh, Berasia Road, Bhopal	07	June 2016	29
5	HMT Limited, Tractor Division, Pinjore-Haryana	16	June 2016	30
6	M/s. Captain Tractors Pvt. Ltd. Rajkot	6	June 2016	30
7	Dharti Agro Engineering, Shapar (Veraval) - Rajkot, Gujara	4	June 2016	30
8	Netafim Irrigation India Pvt. Ltd., Savali, Dist: Vadodara	4	June 2016	30
9	Signet Industries Ltd. Baroda	2	June 2016	30
10	ICAR-SWC Institute, Udhagmandalam	5	June 2016	30
11	ICAR-SWC Institute, Datia	5	June 2016	30
12	Gramin Vikas Trust, Dahod	3	June 2016	30
13	CIPHET, P.O. - Punjab Agricultural University (PAU), Ludhiana, Punjab	5	June 2016	30
14	Indian Institute Crop Processing Technology, Tanjaur	7	June 2016	30
15	Patson Foods (India) Pvt. Ltd., Navsari	11	June 2016	30
16	Mother Dairy, Junagadh	5	June 2016	30
17	Amul fed Dairy (Mother Dairy), Gandhinagar	2	June 2016	30

Table 8.2 Details of 8th Semester Students deputed for In-Plant trainings during the year 2015-16

Sr. No.	Name of Organizations offered Training	No. of Students	Period	Duration (days)
1	John Deere India Pvt. Ltd, Ahmedabad	7	Feb- May	120
2	Captain Tractors Pvt. Ltd., Rajkot	6	Feb- May	120
3	Tirth Agro Technology Pvt. Ltd. (Shaktiman), Rajkot.	5	Feb- May	120
4	Jain Irrigation Systems Ltd, Jalgaon	5	Feb- May	120
5	NETAFIM, Irrigation Private Limited, Vadodara	2	Feb- May	120
6	Signet Industries Ltd., Baroda	1	Feb- May	120
7	Bhumi Polimer, Rajkot	1	Feb- May	120
8	CIPHET, Ludhiana	4	Feb- May	120
9	Paston food Pvt. Ltd. Navsari	1	Feb- May	120
10	McCain Foods India Pvt. Ltd., Mehsana	1	Feb- May	120
11	L'obel Solar Power System, Vadodara	1	Feb- May	120

Table 8.3 Students Recruited in 2015-16 (Under Graduate)

Sr. No.	Name of organization	Name of student
1	Captain Tractors Pvt. Ltd., Rajkot	1. Chaudhari Tejaskumar Prafulbhai
		2. Poshiya Gaurav Jaysukhlal
		3. Solanki Mayursinh Udesinh
2	Jain Irrigation Systems Ltd, Jalgaon	1. Dangar Kishan Kalubhai
		2. Gohil Jashpalsinh Randhirsinh
		3. Rathod Siddharth Mahendrasinh
		4. Bharwad Dipakkumar Dhanabhai
		5. Vaghasiya Sagar Pravinbhai
3.	Tirth Agro Technology Pvt. Ltd., Rajkot	1. Barad Vipulbhai Lakhmanbhai
		2. Sakariya Mukeshbhai Karamshibhai
4.	Gujarat Green Revolution Company, Vadodara	1. Badi Mukhtar Ahmad Abdulkadar
		2. Shah Himanshubhai Kirtanlal
5.	Amidhara Drip Irrigation	1. Dabhi Ashokkumar Vikramsinh
		2. Koli Satvantsinh Mansingbha
6.	Field King Rotavator, Hariyana	1. Baria Trusharkumar Mahendrasinh
7.	Magnum Agri. Equipment	1. Bariya Manojkumar Gordhanbhai
	Total	16

Table 8.3 Students Recruited in 2015-16 (Post Graduate)

Sr. No.	Name of organization	Name of student
1	Jain Irrigation Systems Ltd, Jalgaon	1.Bhanderi Hepin
2.	Captain Tractors Pvt. Ltd., Rajkot	1. Kanzariy Jaydev G.
	Total	2

Table 8.4 Yearwise 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		
2010-11	-	-	-	-	-	-	-
2011-12	27	-	13	-	-	14	-
2012-13	27	-	12	-	-	15	-
2013-14	25	-	14	-	-	11	-
2014-15	28	-	21	-	-	07	-
2015-16	34	-	16	-	-	14	4*
Total	141	-	76	-	-	61	-

* not employed till date

9. ADMITTED AND PASSED OUT STUDENTS

Table 9.1 List of Admitted Undergraduate Students during the year

Sr. No.	Reg. No.	Name of the Students
1	05-0279-2015	Bandhiya Nandu Devanand
2	05-0280-2015	Bhalala Abhishek Durlabhbhai
3	05-0281-2015	Bharvad Bahecharbhai Surabhai
4	05-0282-2015	Bhingaradiya Prince Natavarbhai
5	05-0283-2015	Chaudhari Sanketbhai Kodarbhai
6	05-0284-2015	Chavda Anilkumar Dineshbhai
7	05-0285-2015	Gondaliya Rajeshkumar Kalubhai
8	05-0286-2015	Gondaliya Swapanil Prabhudasbhai
9	05-0287-2015	Gupta Kishankumar Dineshbhai
10	05-0288-2015	Jadav Kartikkumar Dhanjibhai
11	05-0289-2015	Jotava Kamlesh Danabhai
12	05-0290-2015	Koradia Ashishkumar Kanjibhai
13	05-0291-2015	Monapara Maulik Nileshbhai
14	05-0292-2015	Ninama Radhaben Chandrasinh
15	05-0293-2015	Patel Charmiben Atulkumar
16	05-0294-2015	Patel Chintan Natubhai
17	05-0295-2015	Patel Harsh Dipakkumar
18	05-0296-2015	Patel Mayurkumar Rajendrabhai
19	05-0297-2015	Patel Rahulkumar Harishbhai
20	05-0298-2015	Patel Savankumar Aniruddhabhai
21	05-0299-2015	Patel Yashkumar Prakashbhai
22	05-0300-2015	Prajapati Priyankkumar Arvindbhai
23	05-0301-2015	Rakeshkumar H. Parmar
24	05-0302-2015	Ramani Harshitkumar Shivilal
25	05-0303-2015	Ramani Uttam Shaileshbhai
26	05-0304-2015	Rathod Renukaben Kishorbhai
27	05-0305-2015	Rathva Ajaykumar Lallubhai
28	05-0306-2015	Sabhadiya Himanshi Rameshbhai
29	05-0307-2015	Shubham Nageshwar
30	05-0308-2015	Thesiya Sandeep Gobarbhai
31	05-0309-2015	Urvashiben Parmar
32	05-0310-2015	Vaghela Yuvrajsinh Babubhai
33	05-0311-2015	Vansh Sangabhai Nathabhai
34	05-0312-2015	Zalavadiya Hirenkumar Harasukhbhai

Diploma to Degree Students

Sr. No.	Reg. No.	Name of the Students
1	D5-0272-2015	Balas Nileshkumar Bheekhubhai
2	D5-0273-2015	Bhadarka Hardikkumar Chinabhai
3	D5-0274-2015	Dave Dhruv Dilipkumar
4	D5-0275-2015	Kaushal Gadariya
5	D5-0276-2015	Nayi Pratikkumar Navinbhai
6	D5-0277-2015	Rathod Jaydipsinh Makansinh
7	D5-0278-2015	Sharma Gautamkumar Bhupendrabhai

Table 9.2 List of Passed out Undergraduate Students during the year

Sr. No.	Registration No.	Name of the Students
1	05-0140-2012	Badi Mukhtar Ahmad Abdulkadar
2	05-0141-2012	Balas Dudabhai Bheekhubhai
3	05-0142-2012	Barad Vipulbhai Lakhmanbhai
4	05-0144-2012	Bhojani Hirenkumar Ranchhodbhai
5	05-0146-2012	Butani Niravkumar Jentibhai
6	05-0147-2012	Chaudhari Tejaskumar Prafulbhai
7	05-0149-2012	Dangar Kishan Kalubhai
8	05-0151-2012	Dodia Jaydipkumar Ramabhai
9	05-0152-2012	Gaglani Hemang Vireshbhai
10	05-0153-2012	Gohil Jashpalsinh Randhirsinh
11	05-0155-2012	Kachhadiya Sagar Gopalbhai
12	05-0157-2012	Ladani Uttam Rameshbhai
13	05-0158-2012	Lakhani Sameerbhai Ghanshyambhai
14	05-0161-2012	Pargi Digvijaysinh Lalsinh
15	05-0163-2012	Parmar Sanjaykumar Haribhai
16	05-0166-2012	Patel Sauravkumar Rajendrabhai
17	05-0167-2012	Rajani Niravkumar Vrajlal
18	05-0171-2012	Sakariya Mukeshbhai Karamshibhai
19	05-0172-2012	Shah Himanshubhai Kirtanlal
20	D5-175-2013	Dabhi Ashokkumar Vikramsinh
21	D5-176-2013	Panchal Purnimaben Mahendrakumar
22	D5-177-2013	Patel Akashkumar Shantilal
23	D5-178-2013	Rathod Siddharth Mahendrasinh
24	D5-179-2013	Solanki Mayursinh Udesinh
25	05-0103-2011	Baria Trusharkumar Mahendrasinh
26	05-0106-2011	Bharwad Dipakkumar Dhanabhai
27	05-0121-2011	Poshiya Gaurav Jaysukhlal
28	05-0129-2011	Vaghasiya Sagar Pravinbhai
29	05-0130-2011	Zinzala Rameshkumar Vashrambhai
30	05-0076-2010/12	Koli Satvantsinh Mansingbha
31	D5-0132-2012	Bariya Manojkumar Gordhanbhai

32	D5-0135-2012	Parmar Mehul Mansukhbhai
33	D5-0136-2012	Patel Naitikkumar Ashvinkumar
34	D5-0138-2012	Vekariya Satishkumar Kanjibhai

Table 9.3 List of Admitted Post Graduate Students during the year

Discipline	Sr. No.	Name of the Students	Registration No.
M. Tech.			
Soil and Water Engg.	1	Deepak Kumar	04-2766-2015
Farm Machinery & Power Engg.	2	Manjeet Prem	04-2768-2015
Processing and Food Engineering	3	Chauhan Ajitsinh Dadusinh	04-2765-2015
	4	Khodifad Bhargavbhai Chitharbhai	04-2767-2015
In Service- M. Tech.			
Farm Machinery & Power Engg.	5	Pargi Sanjaykumar Jeetsinh	04-2821-2015
Processing and Food Engineering	6	Rathod Jaydipsinh Pravinsinh	04-2822-2015
Ph.D.			
Soil and Water Engg.	1	Neizevono Mor	04-2769-2015

Table 9.4 List of Passed out Post Graduate Students during the year

Discipline	Sr. No.	Name of the Students	Registration No.
M. Tech.			
Soil and Water Engg.	1	Baria Sonalben V.	04-2263-2013
	2	Pampaniya Niravkumar K.	04-2266-2013
	3	Patel Jigarkumar M.	04-2267-2013
	4	Prateek Kumar	04-2268-2013
Farm Machinery & Power Engg.	5	Bhimani Jasminkumar B.	04-2264-2013
	6	Kanzariy Jaydev G.	04-2265-2013
	7	Shukla Kripanarayan S.	04-2270-2013
	8	Sule Vipin Y.	04-2271-2013
	9	Raulaji Hardikkumar K.	04-2043-2012
In Service- Ph.D.			
Renewable Energy Engg.	1	Vyas Dharmeshkumar K.	04-1824-2011





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ADDRESS

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