



# Annual Report 2019-20



2019-2020 Government of Gujarat  
**Food and Drug Control Administration, Gujarat State**  
 Special License  
 (Series: F-1) (Form Regulation 2-1482)  
 Issued on 14/04/2020 till 14/04/2021  
 License Number: 001710000000

Name of food products with quantity/quality/characteristics/Manufacture/Wholesale/Wholesaler

Sl. No.	Product Description	Quantity (MT/Day)	Kind of Business
1	Ready to Eat (RTE) 1.1	100	Manufacture
2	Ready to Eat (RTE) 1.2	100	Manufacture
3	Ready to Eat (RTE) 1.3	100	Manufacture
4	Ready to Eat (RTE) 1.4	100	Manufacture
5	Ready to Eat (RTE) 1.5	100	Manufacture

Wholesaler  
 1. Name of Wholesaler  
 2. Address of Wholesaler  
 3. Contact No. of Wholesaler  
 4. Signature of Wholesaler  
 5. Date

Manufacturer  
 1. Name of Manufacturer  
 2. Address of Manufacturer  
 3. Contact No. of Manufacturer  
 4. Signature of Manufacturer  
 5. Date

20/04/2020  
 14/04/2021  
 14/04/2020  
 14/04/2021

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3	Ready to Eat (RTE) 1.3	100	Manufacture
4	Ready to Eat (RTE) 1.4	100	Manufacture
5	Ready to Eat (RTE) 1.5	100	Manufacture

Wholesaler  
 1. Name of Wholesaler  
 2. Address of Wholesaler  
 3. Contact No. of Wholesaler  
 4. Signature of Wholesaler  
 5. Date

Manufacturer  
 1. Name of Manufacturer  
 2. Address of Manufacturer  
 3. Contact No. of Manufacturer  
 4. Signature of Manufacturer  
 5. Date

20/04/2020  
 14/04/2021  
 14/04/2020  
 14/04/2021



**College of Food Processing Technology and Bioenergy  
 Anand Agricultural University  
 Anand-388 110**



**Hon'ble Governor of Gujarat, Shri Acharya Devvrat during 16<sup>th</sup> Convocation**

# Annual Report

2019-20



**Compiled by**

**Dr. A.K. Sharma (Convener), FE Dept.**

**Er. P. B. Moradiya, FE Dept**

**College of Food Processing Technology and Bioenergy**

**Anand Agricultural University**

**Anand-388 110**

# **College Annual Report**

Volume: 7

Year: 2019-20



**Dr. R. F. Sutar**  
O.S.D.

# **Anand Agricultural University**

## **Anand**



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### ***Message***

The College of Food Processing Technology and Bioenergy, AAU, Anand is one of the prestigious institutions in the country, which imparts education in the field of Food Processing. The institution is making a steady progress to achieve its vision and mission. The graduates and post graduates of the college have contributed significantly in the sectors such as food plant operations, plant management, food processing, food packaging, food product development, quality testing, equipment manufacturing, marketing, etc. They are providing technical, professional and managerial inputs to their organizations.

The college has pioneered food processing technology education and research in the Gujarat state. Since its inception keeping pace with the technological advancement and other developments, it has upgraded its infrastructure, academic programmes and redesigned the curriculum from time to time.

I feel delighted to forward the Annual Report of College of Food Processing Technology and Bioenergy for the year 2019-20. The brief details about the college, staff and fund utilization, academic programmes, departments, seminars, workshops and trainings, various programmes organized and attended by the staff, publications/faculty achievements, students' welfare activities, training and placement, etc. are comprehended and depicted in the report. Most of the details have been presented in tabular manner which are self-explanatory. Also, photographs are presented to share glimpses of different programmes organized during the year 2019-20. The report will also help the College and University to take necessary measures for the further development to strengthen the education, help the processors and related industries in the state and country.

I appreciate the efforts made by Dr. A. K. Sharma and his compilation team, Head of the Departments, Assistant Administrative Officer, and all the staff for supporting in publishing of such informative document.

Anand

  
**(R.F. Sutar)**

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## **I. ABOUT THE COLLEGE**

The efficient use of resources is the growing concern for all involved in food production, processing, distribution and retailing. The unique features of the raw materials of the food processing industries such as seasonality, perishability and variability in conjunction with sophistication required for processing to maintain high quality standards, necessitates special attention towards focused availability of qualified technical manpower, effective technologies and efficient machinery. The food industries in the country need modernization to face the challenges of the globalization.

Considering the huge demand of the specialized human resource for the fast-growing sectors of food industry, the Anand Agricultural University has established a full-fledged College of Food Processing Technology & Bio-Energy in the year of 2008-09 vide Government of Gujarat, Department of Agriculture & Cooperation Notification No - ACV- 122008 - 404 - C.2 dated 29-05-2008. It develops students with high-tech scientific knowledge and technical skills to handle various food resources from farm-to-factory-to-consumers. Efficient production, processing and packaging of various value-added processed food products of very high quality are the main aspects being taught to the students. The college produces competent food technologists/engineers to establish, operate and manage various sectors of food processing industries.

### **Vision**

Providing excellent food processing professionals to the industry.

### **Mission**

The primary mission of the college is to produce highly skilled, competent and motivated technical manpower for food processing and allied industries. The technocrats so produced will also be competent to handle all the aspects of research institutes, quality testing laboratories and other related agencies. Also, the college is concerned with the exploitation of novel techniques and technologies to maximize the use of food resources.

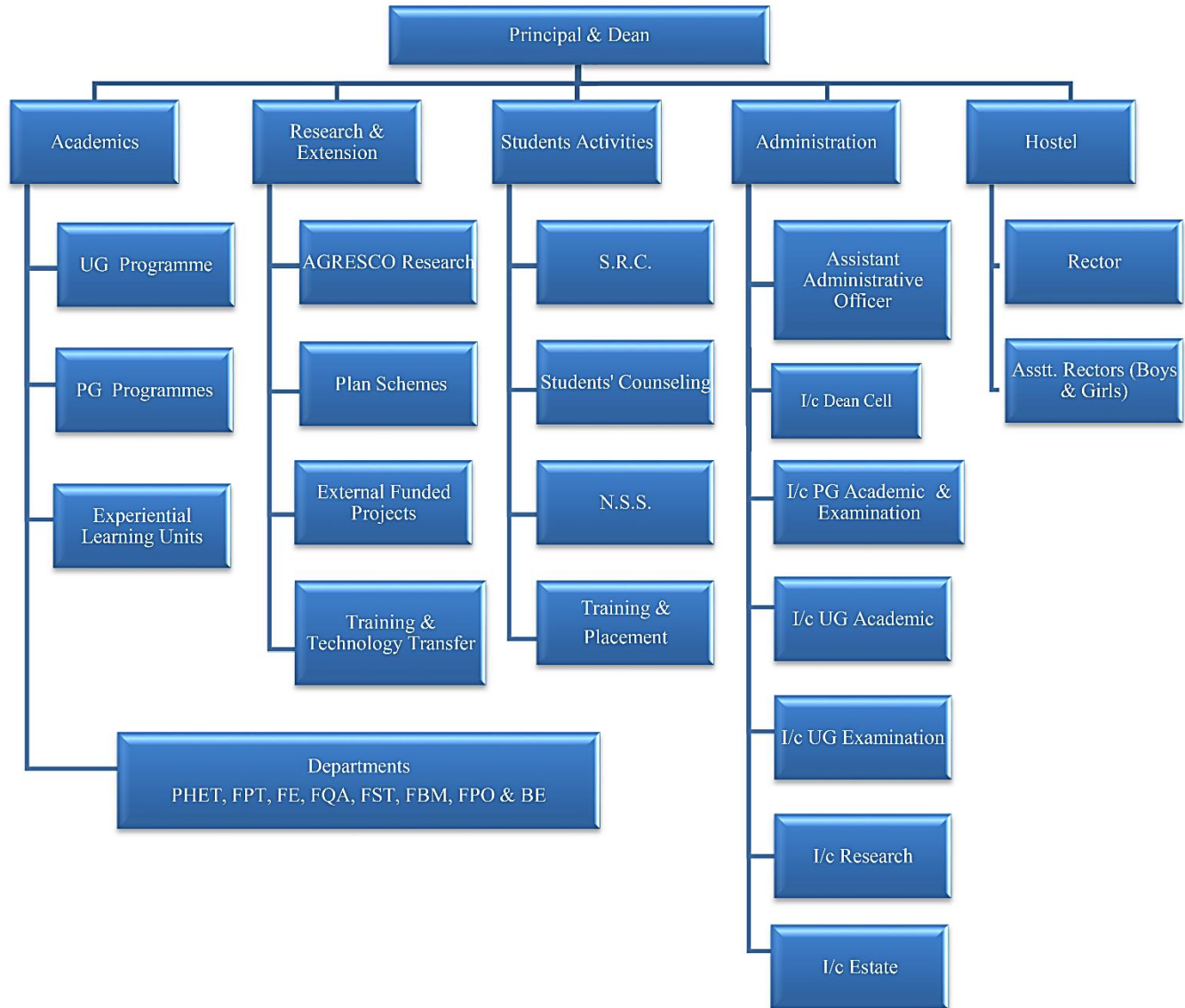
### **Goal**

The goal of the college is to promote the integration of teaching, research and extension in food processing and bio energy by serving as a premier educational and research institute in the field of food processing technology in the State of Gujarat as well in India.

### **Mandates**

- Education and training in the field of food processing technology and bio-energy so as to produce highly skilled and competent manpower for food processing industries and other agencies.
- Basic, applied and adoptive research and development in the area of agro-processing, food technology, food engineering, food quality assurance, bio-energy and other relevant subjects.
- Transfer of technologies and consultancy in different aspects related to food processing industry.

## Organizational Chart of the College of Food Processing Technology and Bio Energy





## II. STAFF POSITION AND FUND UTILIZATION

Table 1 Total Manpower available with the college as on 31.03.2020

Sr. No.	Name of post	Pay Scale (Rs.)	B.H.	Sanctioned	Filled	Vacant
1	Principal	37400-67000 (10000 AGP)	12950	1	0	1
2	Professor	37400-67000 (10000 AGP)	12950	3	3	0
3	Associate Professor	37400-67000 (9000 AGP)	12950	4	4	0
			5073	1	1	0
			6502-3	1	0	1
4	Assistant Professor	15600-39100 (6000 AGP)	12950	19	16	3
			6502-3	4	0	4
			12075	1	1	0
5	Senior Research Assistant/ Assistant Instructor	39900-126600	12950	2	2	0
			5073	2	1	1
			6502-3	1	0	1
6	Laboratory Technician	29200-92300	12950	2	2	0
7	Mechanic	25500-81100	12950	1	1	0
8	Assistant Administrative Officer	44900-142400	12950	1	1	0
9	Head Clerk	35400-112400	5073	1	0	1
10	Senior Clerk	25500-81100	12950	1	1	0
			5073	1	1	0
11	Junior Clerk	19900-63200	12950	1	1	0
			5073	1	0	1
12	Driver	19900-63200	5073	1	0	1
13	Research Associate	38000+HRA	12993-21	1	1	0
14	Research Associate	38000+HRA	12960	2	2	0
			12969	1	1	0
15	Laboratory Attendant / Peon / Helper / Lab Boy	14800-47100	12075	1	0	1
			5073	4	2	2
			6502-3	1	0	1
<b>TOTAL</b>				<b>58</b>	<b>41</b>	<b>18</b>

Table 2 Budget heads wise sanctioned grant and utilization (2019-20)

SN	Scheme	Budget Head	Sanctioned Grant				Expenditure				Fund Utilization %				Income
			Pay & Allow	Rec	Non Rec	Total	Pay & Allow	Rec	Non Rec	Total	Pay & Allow	Rec	Non Rec	Total	
(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)	(viii)	(ix)	(x)	(xi)	(xii)	(xiii)	(ivx)	(vx)	(xvi)
<b>Plan</b>															
1	Development of various biogas plants to use vegetative wastes	12075	7,44,000	3,14,000	0	10,58,000	6,43,877	3,04,403	0	9,48,280	86.54	96.94	0.00	89.63	
2	Establishment of College of Food Processing Technology & Bio-Energy	12950	407,80,000	52,53,000	4,50,000	464,83,000	406,66,497	52,20,899	0	458,87,396	99.72	99.39	0.00	98.72	
3	Post Harvest management of some important crops of middle Gujarat	12960	14,12,000	12,83,000	1,95,000	28,90,000	13,88,200	12,12,860	195000	27,96,060	98.31	94.53	100.00	96.75	
4	Development of irradiation technology for agricultural, animal dairy and food products	12969	6,50,000	7,32,000	0	13,82,000	6,49,825	6,20,763	0	12,70,588	99.97	84.80	0.00	91.94	
5	Establishment of students training centre for food processing	12969-01	0	10,00,000	0	10,00,000	0	9,73,950	0	9,73,950	0.00	97.40	0.00	97.40	
6	Strengthening of students training cum coaching centre	12969-02	0	9,00,000	1,99,000	10,99,000	0	8,23,281	1,98,390	10,21,671	0.00	91.48	99.69	92.96	
7	Establishment of department of food safety and testing at Anand	12987-11	0	22,80,000	0	22,80,000	0	19,46,778	0	19,46,778	0.00	85.39	0.00	85.39	
8	Establishment of instructional processing facilities for students	12987-14	0	6,18,000	0	6,18,000	0	5,85,025	0	5,85,025	0.00	94.66	0.00	94.66	
9	Development of food decontamination technology for safety and quality of fresh and minimally processed fruits and vegetables	12993-21	7,18,000	7,13,000	0	14,31,000	7,17,200	6,39,569	0	13,56,769	99.89	89.70	0.00	94.81	
10	Training programme on food processing technology	12988-04	0	15,00,000	0	15,00,000	0	11,58,496	0	11,58,496	0.00	77.23	0.00	77.23	
11	Upgrading of the students facilities at different campuses	12865	0	50,000	90000	1,40,000	0	46,607	44500	91,107	0.00	93.21	49.44	65.08	
12	Modernizing the students facilities at different campuses	12967	0	80,000	25000	1,05,000	0	79,956	21780	1,01,736	0.00	99.95	87.12	96.89	
13	Scheme for establishing the office of the director of student welfare, counselling and placement cell	12967-2	0	50,000	0	50,000	0	46,158	0	46,158	0.00	92.32	0.00	92.32	
14	Award of fellowship to under graduate students in various faculties of AAU.	12967-01	0	72,000	0	72,000	0	72,000	0	72,000	0.00	100.00	0.00	100.00	
15	Award of fellowship to post graduate students in various faculties of AAU.	12703	0	49,500	0	49,500	0	49,500	0	49,500	0.00	100.00	0.00	100.00	
16	Addition of the facilities for organizing Rural Agricultural Work Experience (RAWEX)	12930	0	75,000	0	75,000	0	75,000	0	75,000	0.00	100.00	0.00	100.00	
17	Strengthening of Polytechnic in Food Science & Home Economics	12957	5776000	15,47,000	455000	77,78,000	5718713	15,46,629	384975	76,50,317	99.01	99.98	84.61	98.36	
Total			500,80,000	165,16,500	14,14,000	680,10,500	497,84,312	154,01,874	8,44,645	660,30,831	99.41	93.25	59.73	97.09	

<b>Non Plan</b>															
1	Establishment Agril Product Process Engineering, Dairy Science College	5073-00	58,50,000	25,000	0	58,75,000	57,38,511	22,964	0	57,61,475	98.09	91.86	0.00	98.07	
2	Esta. of Polytechnic in Home Science & Economics, FPT&BE	5229-00	27,00,000	4,50,000	0	31,50,000	25,30,377	4,37,098	0	29,67,475	93.72	97.13	0.00	94.21	
3	Department of Agricultural Product Process Engineering	6502-03	22,60,000	10,000	0	22,70,000	21,88,539	9,091	0	21,97,630	96.84	90.91	0.00	96.81	
4	Strengthening of Existing School Of Baking	7228-01	4,30,000	26,000	0	4,56,000	0	25,960	0	25,960	0.00	99.85	0.00	5.69	
Total			112,40,000	5,11,000	0	117,51,000	104,57,427	4,95,113	0	109,52,540	93.04	96.89	0.00	93.21	
<b>ICAR</b>															
1	Strength and Development of Aus	15211-00	0	0	7,32,000	7,32,000	0	0	3,90,549	3,90,549	0.00	0.00	53.35	53.35	
2	Strength and Development of Aus	15221-00	0	0	3,91,000	3,91,000	0	0	49,500	49,500	0.00	0.00	12.66	12.66	
3	Rural Entrepreneurship Awareness and Development	15657-00	0	3,75,000	0	3,75,000	0	3,75,000	0	3,75,000	0.00	100.00	0.00	100.00	
4	National Talent Scholarship	15658-00	0	2,10,000	0	2,10,000	0	2,10,000	0	2,10,000	0.00	100.00	0.00	100.00	
5		15659-00	0	74,130	0	74,130	0	74,130	0	74,130	0.00	100.00	0.00	100.00	
6	Strengthening of UG/Pg Teaching	15912-00	0	2,00,000	0	2,00,000	0	1,75,893	0	1,75,893	0.00	87.95	0.00	87.95	
7	Student and Faculty Amenities	15921-00	0	2,00,000	0	2,00,000	0	1,01,910	0	1,01,910	0.00	50.96	0.00	50.96	
8	ICAR Emeritus Professor Scheme	2044-16	2,00,000	1,00,000	0	3,00,000	2,00,000	0	0	2,00,000	100.00	0.00	0.00	66.67	
Total			200000	1159130	1123000	2482130	200000	936933	440049	1576982	100.00	80.83	39.19	63.53	
<b>Other agency</b>															
1	National Service Scheme	18273-00	0	77,250	0	77,250	0	64,939	0	64,939	0.00	84.06	0.00	84.06	
2	ICAR Junior Research Fellowship for post graduate students	18311-07	0	9,40,807	0	9,40,807	0	9,22,774	0	9,22,774	0.00	98.08	0.00	98.08	
3	Inspire Fellowship under INSPIRE Programme	18311-7C	0	3,73,800	0	3,73,800	0	3,73,799	0	3,73,799	0.00	100.00	0.00	100.00	
4	ICAR Senior Reserch Felloship for Ph.D Students	18457-35	0	864891	0	8,64,891	0	853984	0	8,53,984	0.00	98.74	0.00	98.74	
5	Bhutan Student Hostel Fees	18557-67	0	10,52,304	0	10,52,304	0	2,05,000	0	2,05,000	0.00	19.48	0.00	19.48	
6	Swadeshi Science Movement	18557-68	0	72,976	0	72,976	0	2,309	0	2,309	0.00	3.16	0.00	3.16	
7	Minimal Processing Unit to Enhance Quality of Fruits & Vegetables	18557-79	0	0	154,29,000	154,29,000	0	0	142,00,000	142,00,000	0.00	0.00	92.03	92.03	
8		18557-98	0	33,00,000	100,00,000	133,00,000	0	18,80,086	88,36,501	107,16,587	0.00	56.97	88.37	80.58	
Total			0	6682028	25429000	32111028	0	4302891	23036501	27339392	0.00	64.39	90.59	85.14	

Table 3 Summary of sanctioned grant and utilization (2019-20)

SN	Scheme	Sanctioned Grant				Expenditure				Fund Utilization %				Income	
		Pay & Allow	Rec	Non Rec	Total	Pay & Allow	Rec	Non Rec	Total	Pay & Allow	Rec	Non Rec	Total		
(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)	(viii)	(ix)	(x)	(xi)	(xii)	(xiii)	(ivx)	(vx)	(xi)
1	Plan	500,80,000	165,16,500	14,14,000	680,10,500	497,84,312	154,01,874	8,44,645	660,30,831	99.41	93.25	59.73	97.09		
2	Non Plan	112,40,000	5,11,000	-	117,51,000	104,57,427	4,95,113	-	109,52,540	93.04	96.89	0.00	93.21		
3	ICAR	2,00,000	11,59,130	11,23,000	24,82,130	2,00,000	9,36,933	4,40,049	15,76,982	100.00	80.83	39.19	63.53		
4	Other agency	0	66,82,028	254,29,000	321,11,028	-	43,02,891	230,36,501	273,39,392	0.00	64.39	90.59	85.14		
Total		<b>615,20,000</b>	<b>248,68,658</b>	<b>279,66,000</b>	<b>1143,54,658</b>	<b>604,41,739</b>	<b>211,36,811</b>	<b>243,21,195</b>	<b>1058,99,745</b>	98.25	84.99	86.97	92.61		
% of total		53.80	21.75	24.46	100.00	57.07	19.96	22.97	100.00						

<b>Fund utilization</b>	<b>%</b>
Pay and Allowances	: 98.25
Recurring Contingencies	: 84.99
Non-Recurring Contingencies	: 86.97
Overall	: 92.61

### III. ACADEMIC PROGRAMMES

The details regarding the degree programmes offered, academic achievement, category wise students' strength during the year, scholarships awarded to the students, B.Tech. training, M.Tech and Ph.D. theses submitted as well as the details regarding subjects offered during B.Tech., M.Tech. and Ph.D. (FPT/FT) programmes for the academic year 2019-20 are included in this section.

Table 4 Eligibility criteria for admission in various degree programmes

Name of the graduate programme	Category wise minimum % requirement of marks in theory subjects in Physics, Chemistry and Mathematics of HSSCE examination			
	General	SC	ST	SEBC
B.Tech. (Food Technology)	40	35	35	40
	Admission is considered on the merit basis of 60% of PCM theory and 40 % GUJCET			
B.Tech. (Food Processing Technology) D-to-D	Admission is considered on the merit basis of 60% of OGPA/percentages achieved in polytechnic and 40 % of entrance test			
M.Tech. (Food Technology)	A candidate (4 Years Bachelor's degree in B.Tech.(FPT) / B.Tech. (Agril. Engg.) is considered on the merit basis of 50% of OGPA (percentage basis) of the last degree and 50 % of common state level entrance examination (a candidate shall have to obtain at least 50% of marks in common entrance examination so as to become eligible for merit list). A candidate who opts for admission on payment basis will be eligible for admission on payment seats by obtaining at least 45% of marks in common entrance examination.			
Ph.D. (Food Technology)	A candidate (M.Tech. in respective discipline) is considered on the merit basis of 6.0 out of 10 points or 60% of OGPA for reserved categories and 6.5 out of 10 points or 65% of OGPA for other candidates and 50 % of common state level entrance examination (a candidate shall have to obtain at least 50% of marks in common entrance examination so as to become eligible for merit list). A candidate who opts for admission on payment basis will be eligible for admission on payment seats by obtaining at least 45% of marks in common entrance examination.			

Table 5(a) Students intake and admitted in different programmes (2019-20)

Degree	Name of the College	Admission Capacity		No of students
		Gen/SC/ ST/ OBC	ICAR	Admitted
B.Tech. (FT)	Food Processing Technology & Bio-Energy, Anand	47	08	55*
B.Tech. (FT) D-to-D	Food Processing Technology & Bio-Energy, Anand	05	0	04
M.Tech. (FPT)	Food Processing Technology & Bio-Energy, Anand	08	03	06
M.Tech. (FPE)	Food Processing Technology & Bio-Energy, Anand	06	00	00
M.Tech. (FSQ)	Food Processing Technology & Bio-Energy, Anand	07	00	01
Ph.D. (FT)	Food Processing Technology & Bio-Energy, Anand	05	03	01

\*Includes Gen/SC/ST/SEBC/EWS (48 seats), ICAR (5 seats), other board (2 seats), NRI (0 seats) and PC (0 seat)

Table 5(b) Students admitted in different post-graduation programmes (2019-20)

Sr. No.	Subject	Specialization	M. Tech.		Ph.D.		Total
			Regular	ICAR	Regular	ICAR	
1	Food Technology	Food Processing Technology	05	01	00	01	07
2		Food Process Engineering	-	-	-	-	-
3		Food Safety and Quality Assurance	00	01	-	-	01
		Total	05	02	00	01	08

Table 6(a) Student evaluation as per V Dean' Committee Recommendations

Examination	UG	PG
Internal (percentage)	50	50
External (percentage)	50	50
Other (percentage)	-	-

Table 6(b) Frequency of student evaluation

	UG	PG
Mid-term theory test (UG) and one hourly tests (PG)	1	2
Internal Practical	1	-
Semester End Practical	1	1
Semester End Theory	1	1
Others (Assignments/Presentations)	-	2

Table 6(c) Examination and weightage for UG

- External theory (50%)
- Internal Theory + Practical (50%)
  - Courses with Theory and Practical  
Mid-term Exam (30%) + Assignment (5%) in practical oriented courses + Practical (15%)
  - Courses with only Theory  
Mid-term Exam (40%) + Assignment (10%)
  - Courses with only Practical:  
(100%) Internal

Table 6(d) Examination and weightage for PG

The different types of examination and weightage

- Self-Study (Assignments) 20%
- Tests 30% Internal theory exam
- Semester-end Examination 50%

Practical examination will be done by the internal examiner (i.e. concerned course teacher).

A copy of the score assigned for each course after semester-end examination shall be submitted to the Dean/Principal by the concerned teacher in hard and soft copy for records and the Dean/Principal will send the same to the University.

Table 7 Passed Out (Graduates and Post Graduates) of AAU in 2019-20

Sr. No.	Degree	First Class with Distinction	First Class	Second Class	Pass Class	Total
1	B.Tech. (FPT)	09	20	10	00	39
<b>UG Total</b>						<b>39</b>
2	M.Tech. (FPT)	02	04	02	-	08
3	Ph.D.	06	00	-	-	06
<b>PG (M.Tech. &amp; Ph.D.) Total</b>						<b>14</b>
<b>Total Passed out</b>						<b>53</b>

Table 8 Class schedules of odd semester (2019-20)

**COLLEGE OF FOOD PROCESSING TECHNOLOGY AND BIOENRGY, AAU, ANAND**

**Revised Class Schedule of M. Tech. / Ph.D. (Food Technology)**  
**Specialization in Food Processing Technology / Food Safety and Quality Assurance**  
**Academic Year: 2019-20**

Semester: M. Tech. / Ph. D. (1<sup>st</sup> Semester)

Time/Day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday 1 <sup>st</sup> & 3 <sup>rd</sup>
09.00-10.00	FQA 504 (AMP)	FPT 513 (AR)	FQA 511(RVP)	FQA 511(RVP)	PGS 504 (AIS) 08.00-10.00	-
10.00-11.00	FPT 502 (HP)	FPT 502 (HP)	FQA 509 (SD)	FPT 513 (AR)		-
11.00-12.00	AG. STAT -512 (VBD)	AG. STAT -512 (VBD)	FPT 501 (RBM)	FQA 504 (AMP)	PGS 502 (MTP) 10:30-12:30	-
				FPT 513 (AR)		
<b>Lunch Break</b>						
13.30 to 15.30 (P)	FPT 501 (RBM) L 14.00 to 15.00	FQA 509 (SD) L 14.00 to 15.00	FQA 509 (AMP)	FQA 511(RMD)	PGS 501 (YRG) 14.00-16.00	-
15:30-17:30 (P)	FQA 511(RMD)	AG. STAT -512 (VBD)	FPT 501 (RBM)	FQA 504 (AMP)	FPT 502 (HP) 16.00-18.00	-

Course No.	Title	Teacher	Credit
FPT 501	Advances in Food Packaging Technology	Er. R B Modi	3(2+1)
FPT 502	Advances in Food Processing Technology	Er. H. Pandey	3(2+1)
FPT 513	Protein Technology	Dr. A Ravani	3(3+0)
FQA 504	Advances in Food Chemistry and Nutrition	Er. A M Patel	3(2+1)
FQA 509	Advances in Food Additives & Preservatives	Dr. S. Dutta/Er. A M Patel	3(2+1)
FQA 511	Advances in Fermentation Technology	Dr. R. Prasad/Mr. R. Dhingani	4(2+2)
AG. STAT -512	Experimental Designs	Dr. V. B. Darji	3(2+1)

No. AAU/FPTBE/PGAcad/ 223132/19  
 Date: 9/1/2019

  
 DEAN

**Copy f.w.r.s. to:**

1. Dean, P G Studies & Director of Research, AAU, Anand
2. Registrar, AAU, Anand
3. Chairman SRC, FPT&BE

**Copy for information & necessary action to:**

1. All concerned teachers
2. Student's Notice Board
3. Academic (U.G.) branch/ PG exam branch, FPT&BE, AAU, Anand
4. Concerned teacher



**College of Food Processing Technology & Bio-Energy, AAU, Anand**  
**Tentative Class Schedule for First Semester B.Tech (FT) w.e.f.: 3<sup>rd</sup> August, 2019**

Time / Day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday (1 <sup>st</sup> , 3 <sup>rd</sup> & 5 <sup>th</sup> )
9:00 – 10:00	FPE-112 (L) MM	FBM-111 (L) PSP	FQA-112 (L) AMP	FPE-111 (L) AN	FQA-112 (L) AMP	ENG-111 (L) NC
10:00-11:00	MATH-111 (L) NDP	FPE-113 (P) I NVS (10.00-12.00)	FPE 113 (L) NVS	FQA-111(L) RD	ESD 111 (L) SSK	
11:00– 12:00	MATH-111 (L) NDP	ENG-111 (P) (II) NC (10.00-12.00)	FPE-111 (L) AN		FQA-111 (L) RD	
12:00 – 13:30	<b>LUNCH BREAK</b>					
13:30– 15:30	FPE-113 (P) II NVS	ESD (P) II SSK		FQA-112(P) II AMP	FPE-112(P) I MM	NSS
	FBM-111 (P)II PSP	FPE-112(P) I MM	ESD (P) I SSK	FPE 111 (P) I AN	FPE 111 (P) II AN	
15:35 – 17:35	ENG-111 (P) (I) NC		FQA-112(P) I AMP	FBM-111 (P)II PSP	FQA-111(P) I RD	SRC Activities
	FPE-113 (P) II NVS	FPE-112(P) II MM	FQA-111(P) II RD	FPE-113 (P) I NVS	FPE-112(P) II MM	

**Details of Courses and Course Teachers**

S. No.	Course No.	Title of the Course	Credits	Teacher's Name
1	FQA 111	General Microbiology	3 (2+1)	R.Dhingani
2	FQA 112	Food Chemistry of Macronutrients	3 (2+1)	A.M.Patel
3	ENG 111	English Language	2 (1+1)	Nischal Chavda
4	MATH 111	Engineering Mathematics-I	2 (2+0)	Nitin D. Patel
5	ESD 111	Environmental Sciences & Disaster Management	2 (1+1)	S. S. Kapdi
6	FPE 111	Basic Electrical Engineering	3 (2+1)	A.Nakiya
7	FPE 112	Workshop Technology	3 (1+2)	Mahesh Makwana
8	FPE 113	Engineering Drawing and Graphics	3 (1+2)	Nirav Shah
9	FBM 111	Computer Programming and Data Structures	2 (1+1)	P.S. Parsania
	PED111	NSS	1 (0+1)*	K.V.Vala
		<b>Total</b>	<b>23(13+10)</b>	Venue: Lecture Hall-I

\* Non-Credit Course

No. AAU/FPTBE/UGAcad/ 655 /19 Date: 21/07/2019

  
Principal

**Copy f.w.r.s. to:**

- 1 Registrar, AAU, Anand
- 2 Chairman, SRC, FPTBE, AAU, Anand
- 3 HoD: FPT/FPE/FQA/BE/PHT/FBM/FST/FPO

**Copy for information & necessary action to:**

- 4 All concerned Teachers
- 5 Student's notice board
- 6 Academic (P.G.)/Exam Branch,/T&P, FPTBE, AAU, Anand

**College of Food Processing Technology & Bio-Energy, AAU, Anand**  
**Tentative Class Schedule for Third Semester B.Tech (FT) w.e.f.: 15<sup>th</sup> July, 2019**

Time / Day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday (1 <sup>st</sup> , 3 <sup>rd</sup> & 5 <sup>th</sup> )
9:00 – 10:00	FQA-231(L) (KSD/HC)	FQA-231(L) (KSD/HC)	FPE-231 (L) (MM)	FPE-231 (L) (MM)	FQA 232 (L) (BHJ)	FQA 232 (L) (BHJ)
10:00 – 11:00	FPT-232 (L) (SHA/AVR)	FPT-232 (L) (SHA/AVR)	FPE-232 (L) (KVV)	FPE-232 (L) (KVV)	FPT 231 (L) (GPT)	
11:00 – 12:00	STAT 231 (L) (ANK)			FPE 233 (L) (AN)	FPE 233 (L) (AN)	
12:00– 13:30	<b>LUNCH BREAK</b>					
13:30– 15:30	FQA-231(P) I (KSD)	FPT-232 (P) I (SHA/AVR)	FQA 232 (P) II BHJ	FPE-231(P) II (MM)		NSS
	FPT-232 (P) II (SHA/AVR)	FQA-231(P) II (KSD)	FPE-231(P) I (MM)	FQA 232 (P) I BHJ		
15:35 – 17:35	STAT 231-(P) I&II (ANK)		FPE-232 (P) I (KVV)	FPE-232 (P) II (KVV)	FPT 231 (P) II GPT	
		SRC Activities	FPE 233 (P) II (AN)	FPT 231 (P) I GPT	FPE 233 (P) I (AN)	

**Details of Courses and Course Teachers**

S. No.	Course No.	Title of the Course	Credits	Teacher's Name
1	FQA 231	Food Biochemistry and Nutrition	3 (2+1)	K.S.Damle(T&P)/ Heena Chawda (T)
2	FQA 232	Industrial Microbiology	3 (2+1)	B.H.Joshi
3	FPE 231	Heat and Mass Transfer in Food Processing	3(2+1)	Mahesh Makwana
4	FPE 232	Food Refrigeration and Cold Chain	3 (2+1)	K.V.Vala
5	FPE 233	Fundamentals of Food Engineering	3 (2+1)	A.Nema
6	FPT 231	Processing Technology of Liquid Milk	2 (1+1)	Govind P.T.
7	FPT 232	Processing Technology of Cereals	3 (2+1)	S.H.Akbari/ Amees Ravani
8	STAT 231	Statistical Methods and Numerical Analysis	2 (1+1)	A.N.Khokhar
9	PED 231	NSS	1 (0+1)*	K.V.Vala
	<b>Total</b>		<b>22(14+8)</b>	Venue: Lecture Hall-II
	<b>* Non-Credit Course</b>			

  
Principal

No. AAU/FPTBE/UGAcad/ 468 /19 Date: 12-06-2019

**Copy f.w.r.s. to:**

- 1 Registrar, AAU, Anand
- 2 Chairman, SRC, FPTBE, AAU, Anand
- 3 HoD: FPT / FPE / FQA / BE / PHE / FBM / FPO / FST

**Copy for information & necessary action to:**

- 4 All concerned Teachers
- 5 Student's notice board (UG)
- 6 Academic (P.G.) / Exam Branch/T&P, FPTBE, AAU, Anand

**College of Food Processing Technology & Bio-Energy, AAU, Anand**  
**Tentative Class Schedule for Fifth Semester B.Tech (FPT) w.e.f.: 15<sup>th</sup> July, 2019**  
**(4<sup>th</sup> Deans')**

Time / Day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday (1 <sup>st</sup> , 3 <sup>rd</sup> & 5 <sup>th</sup> )
9:00-10:00	FPT-351 (L) (HPS)	FPT-351 (L) (HPS)	FPT-351 (L) (HPS)	FPT-352 (L) (GPT)	PHE-351(L) (KVV)	PHE-351(L) (KVV)
10:00-11:00	FPE-351-(L) (KVV)	FPE-351-(L) (KVV)	FPE-353-(L) (AKS/ANN)	FPE-352(L) (AN)	FPE-352(L) (AN)	
11:00-12:00	FQA-351(L) (JKM)	FPT-352 (L) (GPT)	FPT-352 (L) (GPT)	FQA-351 (L) (JKM)	FPE-353-(L) (AKS/ANN)	
12:00-13:30	<b>LUNCH BREAK</b>					
13:30-15:30		FPT-351(P) (HPS)	FPE-353(P) (ANN)		FPE-352(P) (BHJ)	
	FPE-351(P) (KVV)					
15:35-17:35		FQA-351(P) (JKM)	PHE-351 (P) (SVA)		FPT-352(P) (GPT/NRS)	
				SRC Activities		

**Details of Courses and Course Teachers**

S. No.	Course No.	Title of the Course	Credits	Teacher's Name
1	FQA-351	Food Plant Sanitation	2+1	J.K.Momin
2	FPE-351	Process Equipment Design	2+1	K.V.Vala
3	FPE-352	Bio Process Engineering	2+1	A.Nema(T)/ Bhavesh Joshi(P)
4	FPE-353	Food Plant Utilities & Services	2+1	A.K.Sharma(T)/ A.N.Nakiya (T&P)
5	FPT-351	Processing Technology of Fruits & Vegetables	3+1	H. P. Sharma
6	FPT-352	Processing Technology of Milk & Milk Products	3+1	Govind P.T.(T&P)/ N.R.Sardar(P)
7	PHE-351	Storage Structures & Environment Control	2+1	K.V.Vala(T)/ S.V.Anadani (P)
<b>Total</b>			<b>16+7</b>	<b>Venue: Lecture Hall-III</b>

No. AAU/FPTBE/UGAcad/ 577 /19 Date: 21-6-2019



Principal

Copy f.w.r.s. to:

- 7 Registrar, AAU, Anand
- 8 Chairman, SRC, FPTBE, AAU, Anand
- 9 HoD: FPT / FPE / FQA / BE / PHE / FBM/FPO/FST

Copy for information & necessary action to:

- 10 All concerned Teachers
- 11 Student's notice board(UG)
- 12 Academic (P.G.) / Exam Branch/T&P, FPTBE, AAU, Anand.

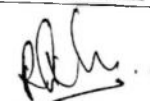
**College of Food Processing Technology & Bio-Energy, AAU, Anand**  
**Tentative Class Schedule for Fifth Semester B.Tech (FT) w.e.f.: 15<sup>th</sup> July, 2019**  
**(5<sup>th</sup> Deans')**

Time / Day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday (1 <sup>st</sup> , 3 <sup>rd</sup> & 5 <sup>th</sup> )
9:00-10:00	FPT-352 (L) (HPS)	FP1-352 (L) (HPS)	FBM-352 (L) DBP	FBM-351 (L) PSP	FPE-351 (L) KVV	FPE-351 (L) KVV
10:00-11:00	FPE-352-(L) (KVV)	FPE-352-(L) (KVV)	FPT-351 (L) (AVR)	FPT-353 (L) (SB)	FPT-353 (L) (SB)	
11:00-12:00	FBM-352 (L) DBP		FQA-351 (L) HGB		FPT-351 (L) (AVR)	
12:00-13:30	<b>LUNCH BREAK</b>					
13:30-15:30		FPT-352(P) II (HPS)	FPT-351(P) I (AVR)	FPT-351(P) II (AVR)	FBM-351 (P) II PSP	SRC Activities
	FPE-352(P) II (KVV)	FPE-352(P) I (KVV)	FBM-351 (P) II PSP	FPT-352(P) I (HPS)	FPT- 353(P) I (SB)	
15:35-17:35	FQA-351 (P) I HGB	FQA-351 (P) II HGB	FPE-351 (P) II SVA	FPE-351 (P) I SVA	FQA-351 (P) I HGB	
		FBM-351 (P) I PSP	FBM-351 (P) I PSP	FQA-351 (P) II HGB	FPT- 353(P) II (SB)	

**Details of Courses and Course Teachers**

S. No	Course No.	Title of the course	Credits	Teacher's Name
1	FQA 351	Instrumental Techniques in Food Analysis	3 (1+2)	H.G.Bhatt
2	FPE 351	Food Storage Engineering	3 (2+1)	K.V.Vala(T)/ S.V.Anadani (P)
3	FPE 352	Food Process Equipment Design	3 (2+1)	K.V.Vala
4	FPT 351	Design & Formulation of Foods	3 (2+1)	Amee Ravani
5	FPT 352	Processing Technology of Fruits and Vegetables	3 (2+1)	H.P.Sharma
6	FPT 353	Bakery, Confectionery and Snack Products	3 (2+1)	Suresh Bhise
7	FBM 351	ICT Applications in Food Industry	3 (1+2)	P.S. Parsania
8	FBM 352	Marketing Management and International Trade	2 (2+0)	Deval Patel
<b>Total</b>			<b>23 (14+9)</b>	<b>Venue: Lecture Hall-III</b>

No. AAU/FPTBE/UGAcad/ 578 /19 Date: 21-6 -2019

  
Principal

Copy f.w.r.s. to:

- 1 Registrar, AAU, Anand
- 2 Chairman, SRC, FPTBE, AAU, Anand
- 3 HoD: FPT / FPE / FQA / BE / PHE / FBM/FPO/FST

Copy for information & necessary action to:

- 4 All concerned Teachers
- 5 Student's notice board(UG)
- 6 Academic (P.G.) / Exam Branch/T&P, FPTBE, AAU, Anand.

**College of Food Processing Technology & Bio-Energy, AAU, Anand**  
**Tentative Class Schedule for Seventh Semester B.Tech (FPT) w.e.f.: 15<sup>th</sup> July, 2019**

Time / Day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday (1 <sup>st</sup> , 3 <sup>rd</sup> & 5 <sup>th</sup> )
9.00 – 10.00	FPT 471(L) (RBM/GPT)	FBM 471 (L) (DBP)	FPE-472(L) (PSP)	FBM 471 (L) (DBP)	FBM 471 (L) (DBP)	FPT 471(L) (RBM/GPT)
10.00 – 11.00	FPE -471(L) (AKS/NVS)	FPE 473 (L) (GPT)	FPE 473 (L) (GPT)	FPE 473 (L) (GPT)	FPT 472 (L) (HPS/DP)	
11.00 – 12.00	FPT-473 (L) (HP)	FPT-473 (L) (HP)	FPT 472 (L) (HPS/DP)	FPE 471 (L) (AKS/NVS)	FPT 473 (L) (HP)	Central Library Visit
12.00 – 13.30	<b>LUNCH BREAK</b>					
13.30– 15.30	FPT 472 (L) (HPS/DP) (14:30-15:30)	FPE-471(P) I (AKS/NVS)	FPT 473(P) II (HP)	FPE-471(P) II (AKS/NVS)	FPT 473(P) I (HP)	
		FPE 473 (P) II (GPT)	FPT-472(P) I (HPS/DP)	FPE 472(P) I (PSP)	FPT-472(P) II (HPS/DP)	
15.35 – 17.35	FPT 471(P) I (RBM/GPT)	FPT 471(P) II (RBM/GPT)	FPE 473 (P) I (GPT)	SRC Activities		
	FPE 472(P) II (PSP)					

**Details of Courses and Course Teachers**

S. No.	Course No.	Title of the Course	Credits	Teacher's Name
1	FPE 471	Food Plant Design & Layout	(2+1)	A.K.Sharma/ N.V.Shah
2	FPE 472	IT Applications in Food Industry	(1+1)	P.S.Parsania
3	FPT 471	Food Packaging Technology & Equipment	(2+1)	R.B.Modi/ Govind P.T.
4	FPT 472	Bakery & Confectionary Products	(3+1)	H.P.Sharma/ Devesh Patel
5	FPT 473	Functional Foods & Nutraceuticals	(3+1)	H.Pandey
6	FPE 473	Dairy Engineering	(3+1)	Govind P.T.
7	FBM 471	Marketing Management & International Trade	(3+0)	Deval Patel
<b>Total</b>			<b>17+6</b>	<b>Venue: Lecture Hall-IV</b>

No. AAU/FPTBE/UGAcad/485 /19

Date: 14-06-2019

*(Signature)*  
Principal

**Copy f.w.r.s. to:**

- 1 Registrar, AAU, Anand
- 2 Chairman, SRC, FPTBE, AAU
- 3 HoD: FPT / FPE / FQA / BE / PHE / FBM/FPO/FST

**Copy for information & necessary action to:**

- 4 All concerned Teachers
- 5 Student's notice board
- 6 Academic (PG) / Exam Branch/T&P, FPTBE, AAU, Anand.
- 7 Central Library, AAU, Anand

Table 9 Class schedules of even semester (2019-20)

**COLLEGE OF FOOD PROCESSING TECHNOLOGY AND BIOENERGY, AAU, ANAND****Class Schedule of  
M. Tech. / Ph.D. (Food Processing Technology) and  
M. Tech. / Ph.D. (Food Technology) Specialization in****(i) Food Processing Technology****(ii) Food Safety and Quality Assurance****Academic Year: 2019-20 (w.e.f. 17-02-2020) EVEN SEMESTER**

Semester: Second / (M. Tech./Ph. D.)

Time/Day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday 1 <sup>st</sup> & 3 <sup>rd</sup>
09.00 – 10.00	FPT-515 (HP)	FQA-516 (BHJ)	FPT-517 (HP)	FPT-510 (AR)	FPT-510 (AR)	FPT-641 (RFS/SHA)
10.00-11.00	FPT-510(AR)	FPT-518 (SD)	FPT-518 (SD)	FQA-503 (RVP)	FQA-516 (BHJ)	PGS 503 (RSP/RS) (10.00-12.00)
11.00-12.00	FQA-513 (RMD) FQA-503 (RVP)	FPT-515 (HP)	FPT-505 (BIJ)	FQA-501 (HGB) FPT-505 (BHJ)	FPT-517 (HP) FQA-513 (RMD)	
<b>Lunch Break</b>						
14.00 to 15.30	Thesis Work	Thesis Work	Thesis Work	Thesis Work	Thesis Work	PGS 505 (NMV) (14.00-16.00)
15.30-17.30 (Practical)	FPT-518 (SD) FPT-505 (BHJ)	FPT-515 (HS) FQA-516 (BHJ)	PGS 506 (NVS) (16.00-17.00)	FQA-501 (HGB) FQA-513 (RMD)	FQA-501(HGB)	Thesis Work

Course No.	Title	Teacher	Credit
FPT-510	Lipid Technology	Dr. A Ravani	3(3+0)
FPT-515	Technology for RTE/RTC Food Products	Dr H Pandey / Dr. Harsh Sharma	3(2+1)
FPT-517	Technology of Frozen Foods	Dr H Pandey	2(2+0)
FPT-518	Traditional and Value-added Food Products	Dr. Samit Dutta	3(2+1)
FQA-501	Advances in Analytical Techniques	Dr. H G Bhatt	3(1+2)
FQA-503	Food Safety and Risk Analysis	Dr. R V Prasad	2(2+0)
FQA-516	Advances in Food Biotechnology	Dr. B H Joshi	3(2+1)
FPT-505	Enzymes in Food Processing	Dr. B H Joshi	3(2+1)
FQA-512	Starter Cultures and Fermented Dairy Products	Dr. R M Dhingani	3(2+1)
FPT-641	Doctoral Seminar (Major)	Dr. R F Sutar/Dr. S H Akbari	1(1+0)
PGS- 503 (e course)	Intellectual Property and its management in Agriculture	Dr. R S Pundir/ Dr R. Singh	1(1+0)
PGS- 505 (e course)	Agricultural Research, Research ethics and Rural Development Programs	Dr N M Vegad	1(1+0)
PGS- 506 (e course)	Disaster Management	Er. N V Shah	1(1+0)

No. AAU/FPTBE/PGAcad/

3891-92 /20

Date: 6/2/2020

*[Signature]*

PRINCIPAL &amp; DEAN

Copy to be sent to:

1. Dean, P.G Studies & Director of Research, AAU, Anand
2. Registrar, AAU, Anand
3. Chairman SRC, FPT&BE

Copy for information &amp; necessary action to:

1. All concerned teachers
2. Student's Notice Board
3. Academic (U.G.), Faculty of FPT&BE, AAU, Anand

**College of Food Processing Technology & Bio-Energy, AAU, Anand**  
**Tentative Class Schedule for Second Semester B.Tech (FT) w.e.f:16/01/2020**

**OFFICE ORDER**

Time / Day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday (1 <sup>st</sup> , 3 <sup>rd</sup> & 5 <sup>th</sup> )
9:00 – 10:00	FPE 123(L) AN	FQA 122(L) AMP	FPE 121(L) MM	FQA 122(L) AMP	FPE 121(L) MM	MATH 121(L) NDP
10:00 – 11:00	FPE 122(L) NVS	MATH 121(L) NDP	FPE 122(L) NVS	FQA 121(L) JKM	FQA 121(L) JKM	
11:00 – 12:00	FPE-124 (L) THB	FPT 121(L) AVR	FPE-124 (L) THB	FPE 123(L) AN	FPT 121(L) AVR	
12:00 – 13:30	<b>LUNCH BREAK</b>					
13:30– 15:30	FQA 122 (P) I AMP		FPE 122(P) I NVS	FPE 123 (P) I AN	FPE 123 (P) II AN	NSS
	FPE-124 (P) II THB		FPE 121 (P) II MM	FPT 121(P) II AVR		
15:35 – 17:35	FPE 121 (P) I MM	FQA 121 (P) II JKM	FQA 121 (P) I JKM	FPT 121(P) I AVR	SRC Activities	
	FPE 122(P) II NVS	FPE-124 (P) I THB	FQA 122 (P) II AMP			

**Details of Courses and Course Teachers**

	Courses		Credits	Course Teachers
1	FQA 121	Food Microbiology	3 (2+1)	Dr.J.K.Momin
2	FQA 122	Food Chemistry of Micronutrients	3 (2+1)	Sh.A.M.Patel
3	FPE 121	Food Thermodynamics	3(2+1)	Er.Mahesh Makwana
4	FPE 122	Fluid Mechanics	3 (2+1)	Er.Nirav Shah
5	FPE 123	Post-Harvest Engineering	3 (2+1)	Dr.A.Nema
6	FPE 124	Basic Electronics Engineering	3 (2+1)	Er.T.H.Bhatt
7	FPT 121	Fundamentals of Food Processing	3 (2+1)	Dr.Amee Ravani
8	MATH 121	Engineering Mathematics-II	2 (2+0)	Dr.N.D.Patel
	PED 121	NCC/NSS/Physical Education	1 (0+1)*	Dr.K.V.Vala
	<b>Total</b>		<b>23 (16+7)</b>	
	* Non-Credit Course			<b>Venue: Lecture Hall-II</b>

*Authentic*  
**Principal & Dean**

No. AAU/FPTBE/UGAcad/ 3458 /20 Date: 1/1/2020

**Copy f.w.r.s. to:**

- 1 Registrar, AAU, Anand
- 2 Chairman, SRC, FPTBE, AAU, Anand
- 3 HoD: FPT/FPE/FQA/BE/PHT/FBM/FPO/FST

**Copy for information & necessary action to:**

- 4 All concerned Teachers
- 5 Student's notice board
- 6 Academic (P.G.)/Exam Branch/T&P, FPTBE, AAU, Anand

**College of Food Processing Technology & BioEnergy, AAU, Anand**

**OFFICE ORDER**

**Tentative Class Schedule for Sixth Semester B.Tech(FT)5<sup>th</sup> Deans'**

**w.e.f.: 01/01/2020**

Time / Day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday (1 <sup>st</sup> , 3 <sup>rd</sup> & 5 <sup>th</sup> )
9:00 – 10:00	FBM 361 (L) DP	FQA 361 (L) SD	FPT 361 (L) HPS	FPT 361 (L) HPS	FQA 362 (L) RVP	FQA 362 (L)
10:00 – 11:00	FPT 362 (L) HP	FPE 361(L) THB	FPE 362 (L) SSK	FPE 361(L) THB	FPT 362 (L) HP	RVP
11:00 – 12:00	FPT 364(L) GPT-RBM		FPT 363 (L) SB-AVR	FPT 363 (L) SB-AVR	FPT 364(L) GPT-RBM	Visit to Central Library
12:00 – 13:30	<b>LUNCH BREAK</b>					
13:30 – 15:30	FPT 364(P) II GPT-RBM	FQA 361 (P) I KSD	FQA 361 (P) II KSD	FPT 361 (P) II HPS	FPT 361 (P) I HPS	
	FPE 362 (P) I SSK	FPT 362 (P) II HP-NS	FPT 362 (P) I HP-NS	FPT 364(P) I GPT-RBM	FPE 362 (P) II SSK	
15:35 – 17:35		FPT 363 (P) I SB-AVR		FBM 361 (P)II DP	FPT 363 (P) II SB-AVR	
	FBM 361 (P)I DP		FPE 361 (P)II THB		FPE 361 (P)I THB	

**Details of Courses and Course Teachers**

Semester-VI			Credits	Name of course Teachers
1	FQA 361	Food Additives and Preservatives	2 (1+1)	Dr.Samit Dutta(T) Sh.K.S.Damle(P)
2	FQA 362	Food Quality, Safety Standards and Certification	2 (2+0)	Dr.R.V.Prasad
3	FPE 361	Instrumentation and Process Control in Food Industry	3 (2+1)	Er.Tanmay Bhatt
4	FPE 362	Applications of Renewable Energy in Food Processing	2(1+1)	Dr.S.S.Kapdi
5	FPT 361	Processing of Meat, Fish & Poultry Products	3 (2+1)	Dr.Harsh Sharma
6	FPT 362	Processing Technology of Beverages	3 (2+1)	Dr.H.Pandey(T&P) Er.Nilesh Sardar (P)
7	FPT 363	Sensory Evaluation of Food Products	3 (2+1)	Dr.Amee Ravani Dr.Suresh Bhise
8	FPT 364	Food Packaging Technology and Equipment	3 (2+1)	Sh.Govind P.T. Sh.R.B.Modi
9	FBM 361	Entrepreneurship Development	2 (1+1)	Dr.D.B.Patel
		<b>Total</b>	<b>23 (15+8)</b>	<b>Venue: Lecture Hall-IV</b>

*[Signature]*  
**Principal & Dean**

No. AAU/FPTBE/UGAcad/ 3202 /2019

Date: 09/12/2019

**Copy f.w.r.s. to:**

- 1 Registrar, AAU, Anand
- 2 Chairman, SRC, FPTBE, AAU, Anand
- 3 HoD: FPT/FPE/FQA/BE/PHT/FBM/FPO/FST

**Copy for information & necessary action to:**

- 4 All concerned Teachers
- 5 Student's notice board
- 6 Academic (P.G.)/Exam Branch/T&P, FPTBE, AAU, Anand




**College of Food Processing Technology & Bio-Energy,  
AAU, Anand**

**OFFICE ORDER**

**Schedule for the Eighth Semester B.Tech.(FPT) during Academic  
Year 2019-20.**

S. No.	Course No.	Title of the Course	Credits	Duration	Name of Teachers
1	FIE 482	Educational Tour	2*(0+2)	27/12/19 to 10/1/20	Dr.H.G.Bhatt Dr.S.H.Akbari
2	FIE 481	Food Process Plant Experience	23(0+23)	13/1/20 to 05/5/20	Dr.Suresh Bhise Dr.Amee Ravani
<b>Total Credits</b>			<b>23</b>		
*Indicates non-credit course					

  
**Principal & Dean**

No. AAU/FPTBE/UGAcad/ 3188 /19

Date: 06/12/2019

**Copy f.w.r.s. to:**

- 1 Registrar, AAU, Anand
- 2 Chairman, SRC, FPTBE, AAU, Anand
- 3 HoD: FPT/FPE/FQA/BE/PHT/FBM/FPO/FST

**Copy for information & necessary action to:**

- 4 All concerned Teachers
- 5 Student's notice board
- 6 Academic (P.G.)/Exam Branch/T&P, FPTBE, AAU, Anand

## Academic Achievements

Table 10 Year wise students passed out

Year	Ph.D.	M.Tech.	B.Tech.	Total
2005	-	5	-	5
2006	-	1	-	1
2007	-	1	-	1
2008	-	2	-	2
2009	1	6	-	7
2010	-	5	-	5
2011	-	6	-	6
2012	-	7	-	7
2013	-	13	21	34
2014	1	13	25	39
2015	1	8	34	43
2016	-	9	32	41
2017	-	7	33	40
2018	9	10	34	53
2019	6	8	38	52
Total	12	93	179	284

Table 11 Semester- wise results of students of B.Tech/ M.Tech/ PhD (FPT)

The semester wise results of students admitted in various years of B.Tech/ M.Tech/ Ph.D. (FPT) are given below:

Degree (Admission Year)	Semester	Dist.	First Class	Second Class	Pass Class	Fail	Total	Students Dropped
Ph.D. (2013-14)	I	-	1	1	-	-	02*	-
	II	-	-	2	-	-	02*	-
	III	-	2	-	-	-	02*	-
	IV	-	2	-	-	-	02*	-
	V	-	2	-	-	-	02*	-
	VI	-	2	-	-	-	02*	-
	VII	-	-	-	-	2	02*	-
	VIII	-	2	-	-	-	02*	-
	IX	-	-	-	-	2	02*	-
Ph.D. (2014-15)	I	2	2	-	-	-	04*	-
	II	1	3	-	-	-	04*	-
	III	1	3	-	-	-	04*	-
	IV	1	3	-	-	-	04*	-
	V	1	3	-	-	-	04*	-
	VI	2	2	-	-	-	04*	-
	VII	2	2	-	-	-	04*	-
Ph.D. (2015-16)	I	3	2	-	-	-	05*	-
	II	2	3	-	-	-	05*	-
	III	2	3	-	-	-	05*	-
	IV	2	2	-	-	-	04*	1
	V	2	1	-	-	1	04*	-
	VII	2	2	-	-	-	04*	-
	VIII	1	-	-	-	-	01*	-
	Ph.D. (2017-18)	I	2	-	-	-	-	02
II		2	-	-	-	-	02	-
III		2	-	-	-	-	02	-
Ph.D. (2018-19)	I							
	II							
	III							

Ph.D. (2019-20)	I	1	-	-	-	-	01	-
	II	1	-	-	-	-	01	-
	III	1	-	-	-	-	01	-
M.Tech. (2013-14)	I	1	6	2	-	-	09	-
	II	1	5	3	-	-	09	-
	III	1	6	2	-	-	09	-
	IV	1	6	2	-	-	08	1
M.Tech. (2014-15)	I	2	7	-	-	1	10	-
	II	1	8	-	-	1	10	-
	III	1	8	-	-	-	09	1
	IV	1	8	-	-	-	09	-
M.Tech. (2015-16)	I	1	5	3	-	-	09*	-
	II	1	4	3	-	-	08*	1
	III	1	5	2	-	-	08*	-
	IV	1	5	2	-	-	08*	-
	V	-	1	-	-	-	01*	-
M. Tech. (2016-17)	I	1	6	1	-	1	09	-
	II	1	6	1	-	1	09	-
	III	0	8	1	-	-	09	-
	IV	0	8	1	-	-	08	-
M. Tech. (2017-18)	I	2	4	6	-	1	13	-
	II	1	8	4	-	-	13	-
	III	4	7	2	-	-	13	-
M. Tech. (2018-19)	I							
	II							
	III							
M. Tech. (2019-20)	I	1	6	-	-	-	07	-
	II	2	5	-	-	-	07	-
	III	2	5	-	-	-	07	-

(\* Including In service)

B. Tech.(2009-10)	I	6	6	10	3	1	26	-
	II	5	6	6	3	6	26	2
	III	5	8	5	2	4	24	1
	IV	4	9	6	3	1	23	-
	V	6	8	4	5	0	23	-
	VI	6	9	7	1	0	23	2
	VII	6	9	6	0	0	21	-
	VIII	21	0	0	0	0	21	-
B. Tech.(2010-11)	I	4	6	14	7	4	35	1
	II	0	8	6	11	11	36	6
	III	3	7	10	8	4	32	6
	IV	3	5	17	2	0	27	-
	V	3	11	12	1	0	27	-
	VI	6	8	9	1	0	25	1
	VII	2	11	08	4	1	26	1
	VIII	24	1	0	0	0	25	-
B. Tech.(2011-12)	I	6	7	5	4	7	29	6
	II	4	6	10	11	1	32	4
	III	4	6	14	6	6	36	3
	IV	3	10	11	4	4	32	1
	V	2	11	17	2	2	34	1
	VI	5	12	16	0	0	33	-
	VII	1	11	20	2	0	34	-
	VIII	32	2	-	-	-	34	-
B.Tech. (2012-13)	I	1	8	11	4	14	38	5

	II	3	9	6	6	13	37	11
	III	3	9	9	3	6	30	-
	IV	7	10	8	5	3	33	1
	V	3	10	10	5	3	31	-
	VI	5	10	16	1	0	32	-
	VII	8	11	11	1	1	32	-
	VIII	22	7	03	0	0	32	-
B.Tech. (2013-14)	I	7	8	11	13	5	44	3
	II	4	6	8	6	14	38	8
	III	7	6	14	4	7	38	4
	IV	11	14	9	0	0	34	-
	V	7	13	13	1	1	35	-
	VI	10	16	8	1	0	35	2
	VII	7	15	11	0	0	33	-
	VIII	8	12	13	0	0	33	-
B.Tech. (2014-15)	I	5	5	7	7	9	33	4
	II	5	11	4	6	4	30	-
	III	4	10	12	5	8	39	1
	IV	6	6	16	5	5	38	4
	V	9	15	10	0	2	36	2
	VI	11	17	3	1	0	32	-
	VII	8	15	7	3	1	34	-
	VIII	34	0	0	0	0	0	-
B. Tech.(2015-16)	I	7	8	5	8	6	34	3
	II	6	9	10	3	3	31	3
	III	5	16	12	0	1	34	-
	IV	2	11	8	16	2	39	-
	V	10	18	5	6	0	39	-
	VI	7	20	12	0	0	39	-
	VII	4	15	13	5	2	39	-
B.Tech. (2016-17)	I	8	12	13	1	5	39	4
	II	10	5	6	11	2	34	1
	III	10	6	10	10	2	38	1
	IV	11	12	13	1	0	37	-
	V	14	10	11	2	0	37	-
B.Tech. (2017-18)	I	0	0	0	2	0	2	-
	II	0	0	0	2	0	2	-
	III	0	0	0	3	0	3	-
B.Tech. F.T. (2017-18)	I	3	10	18	3	0	34	-
B.Tech. F.T. (2017-18)	II	2	9	15	8	1	35	-
B.Tech. F.T. (2017-18)	III	2	10	15	11	1	39	-
B.Tech. F.T. (2019-20)	I	3	7	17	13	7	47	0

### Students Strength

Table 12(A) Category wise strength of UG students –Odd semester (2019-20)

Category	First semester		Third semester		Fifth semester		Seventh semester		Total	
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
General	21	7	11	11	17	4	16	3	65	25
SC	2	0	2	0	1	1	4	0	9	1
ST	3	3	2	4	3	0	0	2	8	9
SEBC	9	2	8	4	7	3	7	2	31	11
EWS	4	1	0	0	0	0	2	1	6	2
ICAR	3	2	3	2	1	1	0	0	7	5
FOREIGN	0	0	1	1	1	2	0	0	2	3
<b>Total</b>	<b>42</b>	<b>15</b>	<b>27</b>	<b>22</b>	<b>30</b>	<b>11</b>	<b>29</b>	<b>8</b>	<b>128</b>	<b>56</b>
Total 184										

Table 12(B) Category wise strength of UG students –Even semester (2019-20)

Category	Second semester		Fourth semester		Sixth semester		Eighth semester		Total	
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
General	17	7	11	11	16	4	16	3	60	25
SC	2	0	2	0	1	1	4	0	9	1
ST	2	2	2	4	3	0	0	2	7	8
EWS	7	2	8	4	6	2	7	2	28	10
SEBC	3	1	0	0	0	0	2	1	5	2
ICAR	3	1	3	2	1	1	0	0	7	4
FOREIGN	0	0	1	1	1	2	0	0	2	3
<b>Total</b>	<b>42</b>	<b>13</b>	<b>27</b>	<b>22</b>	<b>28</b>	<b>10</b>	<b>29</b>	<b>8</b>	<b>128</b>	<b>50</b>
Total 166										

Table 13 Strength of Ph.D. and M.Tech. students (2019-20)

Sr No.	Degree (Specialization)	No. of students registered			
		Fresh		In-service	
		Boys	Girls	Boys	Girls
1	Ph.D. (FPT-2)	3	-	1	-
2	M.Tech (FT). (FPT-4), (FPE-2), (FSQA-2)	4	4	-	-

Table 14 Scholarship awarded to the students (2019-20)

Sr. No.	Types of Scholarship/Financial Aids	Number of Recipient	Amount (Rs.)
1	National Talent Scholarship (2000/p.m./student)	8	2,10,000/-
2	University Scholarship (UG) (500/p.m./student)	14	53,100/-
3	AAU Fellowship (PG) (1500/p.m./student for MTech) 2000/p.m./student for PhD)	DBTS	
4	SEBC Post Metric Scholarship (UG & PG)		
5	SC Post Metric Scholarship		
6	ST Post Metric Scholarship		

Table 15 Post-graduate theses completed (2019-20)

<b>Sr. No.</b>	<b>Thesis Title</b>	<b>Degree</b>	<b>Name of Student</b>	<b>Major Guide</b>
1	Production of edible oyster mushroom ( <i>Pleurotus ostreatus</i> ) using groundnut shell and meal	M.Tech.(FPT)	Molakathalla Jagadeeswara Reddy	Dr. B. H. Joshi
2	Technology for Production of Pomegranate Molasses	M.Tech.(FPT)	Dholu Uttamkumar Chunilal	Dr. S. H. Akbari
3	Technology for Production of Ready to Serve (RTS) Green Tomato Beverage	M.Tech.(FPT)	Patel Arpitkumar Hareshbhai	Dr. S. H. Akbari
4	Development of Carbonated Ready-to-Serve Beverage from Aonla Fruit	M.Tech.(FPT)	Niamcha Lowang	Dr. R. R. Gajera
5	Standardization of Ultrasonic Pre-treatment for Drying Brahmi leaves for the Development of Tisane	M.Tech.(FPT)	Pavitra Gangadhar Hegde	Dr. K. B. Kamaliya
6	Development of production technology for beetroot based blended juice	M.Tech.(FPT)	Theba Tabbuben Yusufbhai	Dr. A. V. Ravani
7	Development of Cactus Fruit based Tisane	M.Tech.(FPT)	Bhalara Yashkumar Pravinbhai	Dr. SamitDatta
8	Effect of pulsed electric field, high pressure processing and thermal processing on the quality and self-life of vegetable juice	Ph. D. (FPT)	Kajal Karnatak	Dr. R. F. Sutar

Table 16 Members of Board of Studies, Food Processing Technology & Bio-Energy

- (1) The Dean, Faculty of Food Processing Technology & Bio-Energy (Chairman)
- (2) The Head of the Department in the Faculty (Member)
  1. Dr. R. F. Sutar, Head, Dept. of Post-Harvest Engineering and Technology
  2. Dr. S. S. Kapdi, Head, Dept. of Bio-Energy
  3. Dr. R. V. Prasad, Head, Dept. of Food Quality Assurance
  4. Er. H. Pandey, Head, Dept. of Food Processing Technology
  5. Dr. A. K. Sharma, Head, Dept. of Food Engineering
  6. Dr. H. G. Bhatt, Head, Dept. of Food Safety and Testing
  7. Dr. Samit Dutta, Dept. of Food Business Management
- (3) The Director of Research and Dean, Post-graduate Studies, AAU, Anand (Member)
- (4) The Director of Extension Education, AAU, Anand (Member)
- (5) Principal, SMC College of Dairy Science, AAU, Anand (Member)
- (6) Associate Professors and its equivalent from each department (Member)
  1. Dr. S. H. Akbari, Agri. Process Engineering
  2. Dr. B. H. Joshi, Bio-technology
- (7) Assistant Professors and its equivalent from each department (Member)
  1. Er. V. B. Bhalodia, Agri. Process Engineering
  2. Dr. R. R. Gajera, Food Processing Technology
  3. Mr. J. K. Momin, Dairy Microbiology
- (8) The Assistant Registrar (Academic) (Secretary)

#### IV. HIGHLIGHTS OF THE DEPARTMENTS

The teaching and research activities (university schemes) carried out by the different departments/sections of the college during the year 2019-20 are reported in this section. Also, the names and qualifications of the staff working in different departments as well as other schemes have been included hereunder.

##### (A) Department of Post Harvest Engineering and Technology

The courses related to Post harvest Engineering, cereals, pulses, oilseeds, fruits and vegetables are the major focus for teaching to the under-graduate & post-graduate academic programmes in the College of Food Processing Technology & Bio-Energy. Research is undertaken in majority of the area of post-harvest and agro-processing technology, for use by farmers and industry.

Table 17 Semester wise distribution of Subjects in UG & PG Food Processing Technology/Food Technology programmes

Sr. No.	Course No.	Subjects	UG / PG	Semester	Credits
1	PHE 231	Post Harvest Engineering	UG	Third	4 (3+1)
2	FPE 233	Food Process Engineering-I	UG	Third	2+1
3	FPT 242	Processing Technology of Food Grains	UG	Fourth	4 (3+1)
4	FPE 352	Bio Process Engineering	UG	Fifth	2+1
As per ICAR 5th Dean Committees' recommendations					
5	FPE 123	Post-Harvest Engineering	UG	Second	3 (2+1)
6	FPE 233	Fundamentals of Food Engineering	UG	Third	3 (2+1)
7	FPT 243	Processing Technology of Legumes and Oilseeds	UG	Fourth	3 (2+1)
8	FPT 244	Processing of Spices and Plantation Crops	UG	Fourth	3 (2+1)
9	FPE 512	Post-harvest Management and Storage Engineering	PG	First	3 (2+1)
10	FPE 504	Thermal Process Engineering	PG	First	3 (2+1)
11	FPE 506	Engineering, Textural & Rheological Characteristics of Food Materials	PG	Second	3 (2+1)

Table 18 Research schemes undertaken

Sr. No.	Title (B.H.)	Principal Investigator	Co Investigators	Period	
				From	To
<b>Funding Agency: Govt. of Gujarat (Plan-Research)</b>					
1	Post Harvest Management of some important crops of middle Gujarat, Anand (12960-00)	Dr. R.F. Sutar, HoD-PHET	Scientists and Research Staff, FPT&BE	April 2012	-continue-

Table 19 Faculty and Staff in the department

Sr No.	Name	Designation	Qualification	Specialization	PG Recog.	Remark
1.	Dr. R. F. Sutar	Professor & Head	Ph.D.	Agricultural Processing & Food Engineering	PG Guide	-
2.	Dr. S. H. Akbari	Associate Professor	Ph.D.	Agricultural Processing & Food Engineering	PG Guide	Additional Charge of HOD, FPO Dept.
3.	Dr. A. Nema	Assistant Professor	Ph.D.	PHP & Food Engg.	PG Guide	Transferred From FE Dept. on



						May 01, 2018
4.	Er. (Mrs) Swati Anadani	Senior Research Assistant	M. Tech.	Agril. Processing & Food Engineering		Transferred from FPT Dept. on May 01, 2018
6.	Er. Vishal D. Kukadiya	Research Associate	M. Tech	Process and Food Engineering		Since April 6, 17
7.	Dr. Bhaumik B. Patel	Research Associate	Ph.D.	Food Processing Technology		Since February 21, 19

### (B) Department of Food Processing Technology

The courses related to technology for food grains, fruits & vegetables, milk and milk products, bakery and confectionery, packaging etc are the major focus for teaching to the under-graduate & post-graduate academic programmes in the College of Food Processing Technology & Bio-Energy. Allied courses like functional foods and nutraceuticals and design and formulation of foods are also covered. Research is undertaken in majority of the area of technology for use by industry.

Table 20 Semester wise distribution of Subjects in UG & PG Food Processing Technology/Food Technology programmes

Sr. No.	Course No	Subjects	UG / PG	Semester	Credits
1	FPT 231	Food Processing Technology - I	UG	Third	3 (2+1)
2	FPT 241	Food Processing Technology - II	UG	Fourth	3 (2+1)
3	FPT 243	Design & Formulation of Foods	UG	Fourth	3 (2+1)
4	FPT 351	Processing Technology of Fruits & Vegetables	UG	Fifth	4 (3+1)
5	FPT 352	Processing Technology of Milk and Milk Products	UG	Fifth	4 (3+1)
6	FPT 471	Food Packaging Technology & Equipment	UG	Seventh	3 (2+1)
7	FPT 473	Functional Foods & Nutraceuticals	UG	Seventh	4 (3+1)
8	FPE 473	Dairy Engineering	UG	Seventh	4 (3+1)
9	FPT 361	Processing Technology of Meat, Fish & Poultry	UG	Sixth	4 (3+1)
11	FPT 472	Bakery and Confectionery Products	UG	Seventh	4 (3+1)
As per ICAR 5 <sup>th</sup> Dean Committees' recommendations					
12	FPE 505	Advances in Dairy Engineering	PG	First	3(2+1)
13	FPT-503	Brewing Technology	PG	First	3(2+1)
14	FPT 121	Fundamental of Food Processing	UG	Second	3 (2+1)
15	FPT 231	Processing Technology of Liquid Milk	UG	Third	2 (1+1)
16	FPT 232	Processing Technology of Cereals	UG	Third	3 (2+1)
17	FPT 241	Unit Operations in Food Processing	UG	Fourth	3 (2+1)
18	FPT 242	Processing Technology of Dairy Products	UG	Fourth	3 (2+1)
19	FPT 502	Advances in Food Processing Technology	PG	First	3(2+1)
20	FPT 513	Protein Technology	PG	First	3(3+0)
21	FPT 501	Advances in Food Packaging Technology	PG	Second	3(2+1)
22	FPT 510	Lipid Technology	PG	Second	3(3+0)
23	FPT 515	Technology for RTE/RTC Food Products	PG	Second	3(2+1)
24	FPT 517	Technology of Frozen Foods	PG	Second	2(2+0)

Table 21 Research schemes undertaken

Sr. No.	Title (B.H.)	Principal Investigator	Co Investigators	Period	
				From	To
Funding Agency: Govt. of Gujarat (Plan-Education)					

1	Establishment of students training centre for food processing (12969-01)	Er. H. Pandey, HoD-FPT	Scientists and Research Staff, FPT&BE	April 2012	-continue-
2	Establishment of instructional processing facilities for student. (2034)	Er. H. Pandey, HoD-FPT	Scientists and Research Staff, FPT&BE	April - 2017	-continue-

Table 22 Faculty and Staff in the department

Sr No.	Name	Designation	Qualification	Specialization	PG Recog.	Remarks
1.	Er. H. Pandey	Associate Professor & Head	Ph.D.	Agricultural Engineering (PFE)	PG Guide	Ph.D. completed in 2018
2.	Er. (Mrs) Ameer Ravani	Assistant Professor	Ph.D.	Food Processing Technology	PG Guide	Ph.D. completed in 2018
3.	Er. H. P. Sharma	Assistant Professor	Ph.D.	Agricultural Engineering (APFE)	PG Guide	Ph.D. completed in 2018
4.	Er. G. P. Tagalpallewar	Assistant Professor	M.Tech.	Food Processing Technology	PG Guide	PhD (In service) 2015 registration
5.	Er. R. B. Modi	Assistant Professor	M.Tech.	Dairy Technology	PG Guide	PhD (In service) 2015 registration
6.	Er. N. R. Sardar	Senior Research Assistant	M.Tech.	Food Processing Technology	-	M.Tech. completed in 2018 PhD (In service) 2018 registration
7.	Er. (Mrs.) Swati Anadani	Senior Research Assistant	M.Tech.	Agricultural Processing & Food Engineering	-	Transferred to PHET Dept. on May 01, 2018. PhD (In service) 2017 registration

### (C) Department of Food Engineering

The courses related to engineering subjects such as food process engineering, mechanical engineering, electrical engineering, instrumentation and process control are the major focus for teaching to the undergraduate & post-graduate academic programmes in the College of Food Processing Technology & Bio-Energy. Allied courses like plant design, utilities and services and food irradiation are also covered. Research is undertaken in majority of the area of process and food engineering for use by industry.

Table 23 Semester wise distribution of Subjects in UG & PG Food Processing Technology/Food Technology programmes

Sr. No.	Course No	Subjects	UG / PG	Semester	Credits
1	FPE 231	Fluid Mechanics	UG	Third	3 (2+1)
2	FPE 232	Engineering Drawing and Graphics	UG	Third	3 (1+2)
3	FPE 241	Food Process Engineering – II	UG	Fourth	3 (2+1)
4	FPE 242	Material Science and Engineering	UG	Fourth	3 (2+1)
5	FPE 243	Food Refrigeration and Air Conditioning	UG	Fourth	4 (3+1)
6	FPE 351	Process Equipment Design	UG	Fifth	3 (2+1)
7	FPT 362	Processing Technology of Spices and Plantation Crops	UG	Sixth	(2+1)
8	PHE 241	Engineering Properties of Biological Materials	UG	Fourth	3(2+1)
9	PHE 351	Storage Structures & Environment Control	UG	Fifth	2+1
10	FPE 353	Food Plant Utilities & Services	UG	Fifth	3 (2+1)

11	FPE 361	Process Control in Food Industry	UG	Sixth	3 (2+1)
12	FPE 471	Food Plant Design and Layout	UG	Seven	3 (2+1)
As per ICAR 5 <sup>th</sup> Dean Committees' recommendations					
13	FPE 111	Basic Electrical Engineering	UG	First	3 (2+1)
14	FPE 112	Workshop Technology	UG	First	3 (1+2)
15	FPE 113	Engineering Drawing and Graphics	UG	First	3 (1+2)
16	FPE 121	Food Thermodynamics	UG	Second	3 (2+1)
17	FPE 122	Fluid Mechanics	UG	Second	3 (2+1)
18	FPE 124	Basic Electronics Engineering	UG	Second	3 (2+1)
19	FPE 231	Heat and Mass Transfer in Food Processing	UG	Third	3(2+1)
20	FPE 232	Food Refrigeration and Cold Chain	UG	Third	3 (2+1)
21	FPE 241	Food Plant Utilities & Services	UG	Fourth	3(2+1)
22	FPE 502	Advances in Food Process Engineering	PG	First	3 (2+1)
23	FPE 501	Computer Aided Design of Food Plant, Machinery and Equipment	PG	Second	3(1+2)
24	PGS 506	Disaster Management	PG	Second	1(1+0)

Table 24 Research schemes undertaken

Sr. No.	Title (B.H.)	Principal Investigator	Co Investigators	Period	
				From	To
<b>Funding Agency: Govt. of Gujarat (Plan-Research)</b>					
1	Development of Irradiation Technology for Agricultural, Animal & Food Products (12969-00)	Dr. A.K. Sharma, HoD-FE	Scientists and Research Staff, FPT&BE	April 2012	-continue-

Table 25 Faculty and Staff in the department

Sr No.	Name	Designation	Qualification	Specialization	PG Recog.	Remarks
1.	Dr. A.K. Sharma	Professor & Head	Ph.D., CEA&M by NPC-BEE, GoI and RP/RSO by AERB, GoI	Food Engg Tech & Energy Auditing	PG Guide	
2.	Er. N.V. Shah	Assistant Professor	M.E.	Civil Engineering	-	Ph.D. (In service) 2017 registration
3.	Er. M. A. Makwana	Assistant Professor	M.Tech.	CAD/CAM (Mechanical Engg)	-	Ph.D. (In service) 2017 registration
4.	Er. A.N. Nakiya	Assistant Professor	M.Tech.	PEMD (Electrical Engg)	-	Ph.D. (In service) 2018 registration
5.	Er. T.H. Bhatt	Assistant Professor	M.E.	Microprocessor System & Applications	-	Ph.D. (In service) 2017 registration
6.	Dr. A. Nema	Assistant Professor	Ph.D.	PHP & Food Engg	PG Guide	Transferred to PHET Dept. on May 01, 2018 to PHET
7.	Dr. K.V. Vala	Assistant Professor	Ph.D.	Agricultural Processing & Food Engg		Transferred from Bioenergy Dept. on May 01, 2018.

						Ph.D. completed in 2018
8.	Er. J. P. Rathod	Senior Research Assistant	B.Tech.	Ag Engg	-	M. Tech (In service) 2015 registration. Transferred to Bioenergy Dept. on May 01, 2018
9.	Mr. K. J. Gajjar	Assistant Instructor	I.T.I.	Machinist	-	
10.	Mr. A. P. Parmar	Mechanic	I.T.I.	Fitter	-	
11.	Mr. R. M. Barot	Craft teacher	Diploma	Electrical Engineering	-	
12.	Er. P. B. Moradiya	Research Associate	M.Tech.	Processing and Food Engineering	-	Since February 22, 2019

#### (D) Department of Food Quality Assurance

The courses related to food science and laboratory analysis for quality assurance are the major focus for teaching to the under-graduate & post-graduate academic programmes in the College of Food Processing Technology & Bio-Energy. A state of art Food Testing Laboratory also established for analysis of food products.

Table 26 Semester wise distribution of Subjects in UG & PG Food Processing Technology/Food Technology programmes

Sr. No.	Course No	Subjects	UG / PG	Semester	Credits
1	FQA 231	Food Biochemistry and Human Nutrition	UG	Third	3 (2+1)
2	FQA 351	Food Plant Sanitation	UG	Fifth	3 (2+1)
3	FQA 361	Food Regulations & Quality Assurance	UG	Sixth	3 (2+1)
As per ICAR 5 <sup>th</sup> Dean Committees' recommendations					
4	FQA 111	General Microbiology	UG	First	3 (2+1)
5	FQA 112	Food Chemistry of Macronutrients	UG	First	3 (2+1)
6	FQA 121	Food Microbiology	UG	Second	3 (2+1)
7	FQA 122	Food Chemistry of Micronutrients	UG	Second	3 (2+1)
8	FQA 231	Food Biochemistry and Nutrition	UG	Third	3(2+1)
9	FQA 241	Food Biotechnology	UG	Fourth	3 (2+1)
10	FQA 242	Food Plant Sanitation	UG	Fourth	2(1+1)
11	FQA 232	Industrial Microbiology	UG	Third	3(2+1)
12	FQA 511	Advances in Fermentation Technology	PG	First	4 (2+2)
13	FQA 504	Advances in Food Chemistry and Nutrition	PG	First	3 (2+1)
14	FQA 501	Advances in Analytical Techniques	PG	Second	3 (1+2)
15	FQA 503	Food Safety and Risk Analysis	PG	Second	3 (2+1)
16	FQA-516	Advances in Food Biotechnology	PG	Second	3(2+1)
17	FQA-512	Advances in Food Microbiology	PG	Third / Fifth	3(2+1)

Table 27 Research schemes undertaken

Sr. No.	Title (B.H.)	Principal Investigator	Co Investigators	Period	
				From	To
<b>Funding Agency: Govt. of Gujarat (Plan-Research)</b>					
1	Development of food decontamination technology for safety and quality of fresh and	Dr. R.V. Prasad, HoD-FQA	Dr. B.H. Joshi	April 2012	-continue-

	minimally processed fruits and vegetables, Anand (12993-21)				
<b>Funding Agency: Govt. of Gujarat (Plan-Education)</b>					
2	Establishment of department of food safety and testing (12987-11)	Dr. H.G. Bhatt	Dr. R.V. Prasad	May 2015	-continue-
<b>Funding Agency: ICAR, New Delhi</b>					
3	Development of non-thermal plasma (NTP) decontamination technology for fruits and vegetable (2036)	Dr. R.V. Prasad, HoD-FQA	Dr. R.F. Sutar, Dr. B.H. Joshi	April 2016	March 2018

Table 28 Faculty and Staff in the department

Sr No.	Name	Designation	Qualification	Specialization	PG Recog.	Remarks
1.	Dr. R.V. Prasad	Professor & Head	Ph.D.	Dairy Microbiology	PG Guide	
2.	Dr. H.G. Bhatt	Associate Professor	Ph.D.	Material Science	PG Guide	HoD –FST Dept
3.	Dr. Bhavesh H. Joshi	Associate Professor	Ph.D.	Microbiology	PG Guide	PG Coordinator
4.	Dr. Devesh H. Patel	Assistant Professor	Ph.D.	Dairy Chemistry	-	
5.	Mr. Kedar S. Damle	Assistant Professor	M.Sc.	Organic Chemistry	-	
6.	Er. Jafarali K. Momin	Assistant Professor	M.Sc.	Dairy Microbiology	-	Ph.D. (In service) 2014 registration
7.	Mr. Rashmin Dhingani	Assistant Professor	M.Sc.	Biotechnology	-	Ph.D. (In service) 2018 registration
8.	Er. Akashamrut M. Patel	Assistant Professor	M.Tech.	Dairy Chemistry	-	Ph.D. (In service) registration
9.	Mr. Hitesh S. Christian	Laboratory Technician	M.Sc.	Biochemistry	-	
10.	Mrs. Nimita P. Runajkar	Laboratory Technician	B.Sc.	Microbiology	-	
11.	Dr. Hetal Bhatt	Research Associate	M.Tech.	Food Processing technology		Joined on 21 <sup>st</sup> Feb, 2019

### (E) Department of Food Business Management

The department mainly focuses on courses such as Project Management, Entrepreneurship Development, Marketing Management & International Trade, Operation Research, Computer Programming & Data Structures, IT Applications in Food Industry, Engineering Mathematics and Language & Communication Skills.

The department is also looking after the Training & Placement and Under Graduate academic activities of the college along with implementation of special projects as assigned by the college/university.

Table 29 Semester wise distribution of Subjects in UG & PG Food Processing Technology/Food Technology programmes

Sr. No.	Course No	Subjects	UG / PG	Semester	Credits
1	FBM 361	Project Management & Entrepreneurship Development	UG	Sixth	3 (2+1)
2	FBM 471	Marketing Management & International Trade	UG	Seventh	3 (3+1)
3	FPE 472	IT Applications in Food Industry	UG	Seventh	1 (0+1)
4	STAT 361	Statistics & Optimization	UG	Sixth	3(2+1)
As per ICAR 5 <sup>th</sup> Dean Committees' recommendations					
5	MATH 111	Engineering Mathematics-I	UG	First	2 (2+0)
6	MATH 121	Engineering Mathematics-II	UG	Second	2 (2+0)
7	ENG 111	English Language	UG	First	2 (1+1)
8	FBM 241	Business Management and Economics	UG	Sixth	2 (2+0)
9	FBM 111	Computer Programming and Data Structures	UG	FIRST	2(1 + 1)
10	FQA 509	Advances in Food Additives & Preservatives	PG	First	3 (2+1)
11	FPT 518	Traditional and Value-added Food Products	PG	First	3 (2+1)
12	FPT 999	Masters Seminar	PG	Forth	1 (1+0)
13	STAT 231	Statistical Methods and Numerical Analysis	UG	Third	2(1 + 1)
14	PGS- 503	Intellectual Property and its management in Agriculture	PG	Second	1(1+0)
15	PGS- 505	Agricultural Research, Research ethics and Rural Development Programs	PG	Second	1(1+0)
16	FPT-982	Operational Research	PG	Third + Fifth	3(3+0)

Table 30 Faculty and Staff in the department

Sr No.	Name	Designation	Qualification	Specialization	PG Recog.	Remarks
1.	Dr. S. Dutta	Associate Professor & Head	Ph.D.	Management	PG Guide	
2.	Mr. P. S. Parsania	Assistant Professor	M.Sc.	Information technology	-	Ph.D. (In service) 2014 registration
3.	Mr. N. M. Chavda	Assistant Professor	M.Phil.	English	-	Ph.D. (In service) 2015 registration
4.	Dr. D. B. Patel	Assistant Professor	Ph.D.	Marketing	-	Ph.D. completed in 2019

#### (F) Department of Bioenergy

The department mainly focuses on Environmental, Bioengry, Solar energy, Wind energy and Non-conventional energy sources, system and management courses of the under-graduate & post-graduate academic programmes in the College of Food Processing Technology & Bio-Energy.

Table 31 Semester wise distribution of Subjects in UG & PG Food Processing Technology/Food Technology programmes

Sr. No.	Course No.	Subjects	UG / PG	Semester	Credits
1	Env 231	Environment Science	UG	Third	2 (1+1)
2	BE 361	Bio energy	UG	Sixth	4 (3+1)
As per ICAR 5 <sup>th</sup> Dean Committees' recommendations					
3	ESD 111	Environmental Sciences & Disaster Management	UG	First	2 (1+1)

Table 32 Faculty and Staff in the department

Sr No.	Name	Designation	Qualification	Specialization	PG Recog.	Remarks
1	Dr. S.S. Kapdi	Professor & Head	Ph.D.	Renewable Energy	PG Guide	
2	Er. J.P. Rathod	Senior Research Assistant	B.Tech.	Ag Engg	-	M. Tech (In service) 2015 registration. Transferred From FE Dept. on May 01, 2018

**(G) Department of Food Plant Operations**

The department mainly focuses on hands on experience through 10 experiential learning namely extrusion, frying, IQF, Juice processing, retort, fruits and vegetables handling, drying, oilseed processing and dhal milling.

Table 33 Faculty and Staff in the department

Sr No.	Name	Designation	Qualification	Specialization	PG Recog.	Remarks
1	Dr. S. H. Akbari	Associate Professor	Ph.D.	Agricultural Processing & Food Engineering	PG Guide	Additional Charge of HOD, FPO Dept.

Table 34 Administrative and Supporting Staff of the College

Sr No.	Name	Designation	Qualification	Specialization	PG Recog.	Remarks
1.	Dr. K. B. Kathiria	Principal	Ph.D.	Plant Breeding	PG Guide	Since Sept 18, 2019
2.	Dr. R. F. Sutar	Principal	Ph.D.	Agricultural Processing & Food Engineering	PG Guide	Since Sept 01, 2018 Till Sept 17, 2019
		OSD				Since Sept 18, 2019
3.	Shri G.Y. Damle	Senior Clerk	S.S.C.	-----	-	Retired on Aug 31, 2019
4.	Shri S.B. Purohit	Senior Clerk	B.A.	-----	-	Since Oct 17, 2014
5.	Shri M.J. Rana	Senior Clerk	M.Com	-----	-	Since July 01, 2015
6.	Shri K. M. Kanzariya	Junior Clerk	B.A.	-----	-	Since March 28, 2011
7.	Shri R. S. Vasava	Lab Attendant	7 <sup>th</sup> Pass	-----	-	Retired on Oct 31, 2019
8.	Shri M. H. Chavda	Helper	7 <sup>th</sup> pass	-----	-	
9.	Shri R. S. Parmar	Lab boy	Old SSC Pass	-----	-	

## Extension Activities

Table 35 Extension Activities carried out (2019-20)

Sr. No.	Name of Centre / Training	No. of Participation
1	Training Program on Food Processing Technology (Certificate course)	12
2	Training cum coaching for ICAR National Eligibility Test (NET)	-

Table 36 Extension Education Activities carried out under special training programs (2019-20)

Sr. No.	Activity	Name of Training
		Food Processing Technology & Food Processing Management
1	Khedut Shibir	8
2	Group Discussions	-
3	Crop Demonstration/ Interactive Demonstration	-
4	Agri. Fairs / Exhibitions	1
5	Guidance to Farmers / visitors	801
6	Radio/TV Talks	-
7	Farm Literature Published/Distributed	-
8	Guidance Through Letters/ Telephone/sms	-
9	Field Visit/ Crop Diagnostic Services	-
10	Farmer Scientists Interactions	-
11	Lectures Delivered for New Technology	-
12	Crop Seminars	-
13	Personality Development	-

**Note:** Figures in bracket indicate numbers of participants/beneficiaries



## V. SEMINAR, WORKSHOPS AND TRAININGS

Table 37 Training/Workshop/Meeting/Seminar/Symposium/Conference/Convention organized by the college (2019-20)

Title	Duration	Sponsoring Authority
Certificate Course on Food Processing Technology	01-02-2019 to 30-04-2019	College of FPT&BE, AAU, Anand
Technical talk by expert Dr. K. K. Pramanik, AGM-QA, AMUL Dairy, Anand	01-06-2019	FPTBE Alumni Association
Industry Interface Meet for polarization of developed technologies	10-06-2019	SMC College of Dairy Science and College of FPT&BE, AAU, Anand
Certificate Course on Food Processing Technology	01-9-2019 to 30-11-2019	College of FPT&BE, AAU, Anand
National Tech Fest (Food Processing) ADROIT'19	16-10-2019 to 17-10-2019	College of FPT&BE, AAU, Anand

Table 38 Training /Workshop/Meeting/Seminar/Symposium/Conference/Convention/Council Meeting/QRT Meeting attended by the Faculty (2019-20)

Sr. No.	Name of Teacher/Scientist	Participated (detail Name of Event/Program, Institute, Place)	Duration	
			From	To
1	Dr. K.V. Vala	ETI training of Programme Officer NSS ETI at Gujarat Vidyapith, Ahmedabad	22-07-2019	27-07-2019
2	Er. A.N. Nakiya	A six week agMOOCs online course on 'Employment Generation among Rural Youth through Agripreneurship', Bihar Agricultural university, Sabour, Bhagalpur, Bihar.	11-06-2019	22-07-2019
3	Dr. S.H. Akbari, Dr. S.S. Kapdi, Dr. A.K. Sharma, Dr. K.V. Vala, Dr. A. Nema, Dr. H.P. Sharma	54 <sup>th</sup> Annual Convention of Indian Society of Agricultural Engineers (ISAE) 'Agricultural Engineering Technologies for Start-ups' and International Symposium 'Artificial intelligence based future technologies in agriculture' at Dr. Annasaheb Shinde College of Agricultural Engineering and Technology, Mahatma Phule Krushi Vidyapith, Rahuri	07-01-2020	09-01-2020
4	Dr. A.K. Sharma, Dr. H. Pandey	10 <sup>th</sup> Asia Pacific Drying Conference (ADC-2019) to be held in Vadodara, India, on December 14-17th, 2019	14-12-2019	17-12-2019
5	Dr. A.K. Sharma, Dr. H. Pandey	Startup & Technology Summit, Vibrant Gujarat Summit 2019, Gandhinagar, Government of Gujarat	12-12-2019	12-12-2019
6	Dr. A.K. Sharma, Dr. H. Pandey	Capacity Building Workshop, KRISHIK- Agri Business Incubator, University of Agricultural Sciences, Dharwad	05-11-2019	07-11-2019

7	Dr. A.K. Sharma	Industry - R&D Interaction on Large Scale Deployment of Radiation Processing of Food Commodities (TMRPFC-2019) at Food Technology Division, Bhabha Atomic Research Centre, Mumbai BARC, Anushaktinagar, Mumbai	17-08-2019	17-08-2019
8	Dr. A.K. Sharma	Brainstorming session for 'BIOTHON'- for State Problems, GSBTM, Udyog Bhavan, Gandhinagar	28-06-2019	28-06-2019
9	Dr. A.K. Sharma, Dr. H. Pandey	A GIAN Short Term course on 'Microwave Heating and Processing of Foods', IIT Bombay, Mumbai	13-05-2019	17-05-2019
10	Er. T. H. Bhatt, Dr. K.V. Vala, Dr. G.P. Tagalpallewar	Seminar on 'Biodynamic Farming' jointly organized by Zonal Chapter Gujarat Association for Agricultural Sciences (GAAS) & BACA Alumni Association at FPT& BE , AAU Anand	09-12-2019	09-12-2019
11	Er. T.H. Bhatt	Workshop cum training on 'Remote Sensing, Data Science and Agro Block chain for Market Intelligence' IABMI, AAU, Anand	31-01-2020	02-02-2020
12	Er. T.H. Bhatt, Dr. A. Ravani, Dr. G.P. Tagalpallewar	Workshop on 'Methodology for Price forecasting , market competitiveness and export opportunity assessment for dairy and food' IABMI, AAU, Anand	28-02-2020	29-02-2020
13	Dr. K.V. Vala	National Seminar on 'Biodynamic Farming' organized by The Gujarat Association for Agricultural Sciences, zonal chapter GAAS, Anand, on Dec 9, 2020 AT Anand.	09-12-2019	09-12-2019
14	Dr. A. Ravani, Dr. G.P. Tagalpallewar, Dr R.B. Modi, Dr. H. Pandey, Dr. S.H. Akbari, Dr. Harsh Prakash Sharma	Ninth international conference on "Fermented foods, Health status and social well-being" (SASNET – Network on Fermented Foods)	13-12-2019	14-12-2019
15	Dr. G.P. Tagalpallewar Mr. K.S. Damle	Centre of Advanced Faculty Training 21 days training at BHU, Varanasi on Bioprocessing/Food Processing/Packaging/Product/Marketing/Export in reference to Food Processing Organised by ICAR	05-09-2019	25-09-2019
16	Dr. G.P. Tagalpallewar	Three days training programme on Food Safety Management Systems (ISO 22000:2018) with reference to HACCP (IS 15000:2013) during ICAR sponsored 21 days CAFT training at BHU, Varanasi.	06-09-2019	08-09-2019
17	Dr. G.P. Tagalpallewar	Second state level convention on Doubling Farmer Income Through Recourse Management and Rural Prosperity held at Anand Agricultural University, Anand	12-10-2019	13-10-2019
18	Dr. H. P. Sharma	International symposium on Artificial Intelligence based future technologist in Agriculture. MPKV, Rahuri, (MH).	07-01-2020	09-01-2020

19	Dr. H. P. Sharma	ICAR winter school on Emerging and Innovative Technologies in Agriculture & Food Engineering. GBPUAT, Pantnagar, UK	01-11-2019	21-11-2019
20	Dr. S.H. Akbari	National Agricultural Higher Education Project (NAHEP) Meet, JAU, Junagadh	27-11-2019	27-11-2019
21	Dr. S.H. Akbari	Indian Horticulture Summit-2020, Chitrakoot, M.P.	14-02-2020	16-02-2020

Table 39 List of Dignitaries Visited College (2019-20)

SN	Name of Dignitaries	Date of Visit
1	Mr. Baboo H Nair, Lund University Spain	04/04/2019
2	Dr. M. B. Patel	15/07/2019
3	Dr. Aloknath	15/07/2019
4	Dr. Rajat K Baisya , Woxen School of Business , Hydrabad	16/10/2019
5	Mr. Chandresh Shah, CEO, Manpasand, Vadodara	16/10/2019
6	Dr. Rameshwar Singh, VC, BASU, PATNA	17/12/2019
7	Prof, Anil Chauhan BHU	17/12/2019
8	Mr. Pranav Shah, Denmark	14/12/2019
9	Rickard Oste, CEO, OTLAY, USA	14/12/2019
10	Dr. G. Vijayalah, Former Scientist, CFTRI, Mysore	16/12/2019
11	Mr. B Suresh Subramonia, Professor, Dept of Dairy Science, Madras Veterinary College, Chennai	16/12/2019
12	Viji Fubanda, Japan	16/12/2019
13	Dr. Vijaya Raghavan	16/12/2019
14	Dr. Shahab Sokhansanj, University of British Columbia, Canada	17/12/2019
15	Dr. Digvir Jayas, Vice President, University of Manitoba, Canada	17/12/2019
16	Dr.M.C.Jain,COA, Dean, Kota	26/12/2019
17	Dr. R C Agarwal, DDG(EDU), ICAR	24/01/2020
18	Terry Tucker Cornell University, New York	27/01/2020
19	Nenguda, Africa	15/02/2020
20	Dr. Rajendra Saigal, DGM, Banas Dairy, Palanpur	02/03/2020
21	Smt. Shomita Biswas, Joint Secretary, Department of Agriculture and Farmers Welfare, New Delhi	26/02/2021

## VI. PUBLICATIONS / ACHIEVEMENT BY FACULTY

This section includes the publications made by the staff during the year 2019-20. The research papers published and presented have been listed hereunder.

### Research paper published during year 2019-20 (Category Wise)

#### (i) International journal

1. Vala K. V. and Rathod J. P. (2019). Postharvest handling and assessment of losses of freshly harvested selected vegetables. *International Journal of Advances in Agricultural Science and Technology*, 6(5):58-63.
2. Kaur, A., Kaur, R. and Bhise, S. (2020). Baking and sensory quality of germinated and ungerminated flaxseed muffins prepared from wheat flour and whole wheat atta. *Journal of Saudi Society for Agricultural Science*, 19: 109-120 (Impact Factor: 0.643) (ISSN NO. 1658-077X) (<https://doi.org/10.1016/j.jssas.2018.07.002>).
3. Kaur, A., Bhise, S. and Kaur, M. (2020). Hydrothermal treatments for paddy to improve physicochemical quality of brown rice. *Journal of Microbiology Biotechnology and Food Science*, 9(5): 913-926 ISSN: 1338-5178 (doi: 10.15414/jmbfs.2020.9.5.913-926).
4. Kaur, S., Bhise, S., Kaur, A. and Minhas, K. S. (2019). Development of naturally carbonated paneer whey fermented beverage blended with pineapple and strawberry juice. *Nutrition and Food Science*, 49(4): 528-547 (NAAS Rating 5.26) (ISSN NO. 0034-6659) (<https://doi.org/10.1108/NFS-07-2018-0183>).
5. Devani B. M., Jani B. L., Balani P. C. and Akbari S. H. (2020). Optimization of super critical CO<sub>2</sub> extraction process for oleoresin from rotten onion waste. *Food and Bioproducts Processing*, 119: 287-295.

#### (ii) National journal

1. Ravani A., Anadani S., Bhatt H. and Prasad R. V. (2020), Development and evaluation of value added product enriched with Moringa oleifera (Drumstick) pod pulp. *Journal of Pharmacognosy and Phytochemistry*, 9(1): 1541-1546
2. Ravani A., Anadani S. V., Gajera R. R. and Prasad R. V. (2020), Physical characterization and Optimization of Blanching Process of *Moringa Oleifera* (var. PKM-1) Pods. *Chemical Science Review and Letters*, 9 (33), 184-191
3. Sardar N.R., Tiwari Manish, Tagalpallewar G.P., Rathod J. P and Butti Prabhakar (2019). Effect of various pretreatments on raisin making from grapes (*Vitis vinifera* L.). *International Journal of Current Microbiology and Applied Sciences*, 8(5): 575-587.
4. Kaur, A., Kaur, R. and Bhise, S. (2019). Baking and sensory quality of flaxseed meal cookies prepared from whole wheat flour (maida) and whole wheat meal (atta). *Agricultural Research Journal*, 56(2): 295-307 (NAAS Rating 4.71) (ISSN NO. 2395-1435).
5. Dhillon, G. K., Kaur, A. and Bhise, S. (2019). Rheological and Quality Characteristics of thyme (*Thymus vulgaris*) enriched bread. *International Journal of Chemical Studies*, 7(2): 648-751 (NAAS Rating 5.31) (ISSN NO. 2349-8528).
6. Sharma H. P., Chakraborty Subir K., Patel H. (2019). Process Parameter Optimization of Enzyme-Aided Juice Extraction of Wood Apple (*Feronia Limonia*). *Agricultural Research*, Published online on 22 November, 2019 (Springer Journal) (<https://doi.org/10.1007/s40003-019-00436-4>).
7. Vaishali, Sharma H. P., Sharma Alka, Nema A. and Gajera R. R. (2019). Effect of shellac coating on minimally processed grapes. *International Journal of Chemical Studies*, 7(2): 1843-1848.

8. Vaishali, Sharma H. P., Samsher, Chaudhary Vipul, Sunil and Kumar M. (2019). Importance of edible coating on fruits and vegetables: A review. *Journal of Pharmacognosy and Phytochemistry*, 8(3): 4104-4110.

### **Research paper presented at Seminar / symposia etc. in 2019-20 (Category Wise)**

#### **(i) International level**

1. Vala K. V., Sutar, R. F. and Joshi D. C. (2020). Development of evaporatively cooled supply chain for fruits and vegetables. Presented in 54<sup>th</sup> Annual convention of Indian Society of Agricultural Engineers (ISAE) and International Symposium on “Artificial Intelligence Based Future Technologies in Agriculture” held by the Dr. A.S. College of Agricultural Engineering and Technology, MPKV, Rahuri at Pune during 7-9, January 2020.
2. Kapdi, S. S., Sagarika, N., Sutar, R. F. and Makwana, M. A. (2020). CFD analysis of fluid streaming in greenhouse dryer. Presented in 54<sup>th</sup> Annual convention of Indian Society of Agricultural Engineers (ISAE) and International Symposium on “Artificial Intelligence Based Future Technologies in Agriculture” held by the Dr. A.S. College of Agricultural Engineering and Technology, MPKV, Rahuri at Pune during 7-9, January 2020.
3. Prabhakar B., Prasad, R.V., Bhatt, H. G. and Bhatt, T.H. (2020). Single cell oils (SCOs): A new Biofuel alternative. Presented in the Annual Convention of 54<sup>th</sup> Indian Society of Agriculture Engineers (ISAE) and International Symposium on “Artificial Intelligence Based Future Technologies in Agriculture” held by the Dr. A.S. College of Agricultural Engineering and Technology, MPKV, Rahuri at Pune during 7-9, January 2020.
4. Sharma H. P., Nema A. and Kukadiya V. (2020). Effect of ozone and ultrasound treatment on nutritional and microbial quality of wood apple juice. Presented in 54<sup>th</sup> Annual convention of Indian Society of Agricultural Engineers (ISAE) and International Symposium on “Artificial Intelligence Based Future Technologies in Agriculture” held by the Dr. A.S. College of Agricultural Engineering and Technology, MPKV, Rahuri at Pune during 7-9, January 2020.
5. Rathod D. J. and Sharma A. K. (2020). Study on microwave assisted drying of Aonla shreds. Presented in 54<sup>th</sup> Annual convention of Indian Society of Agricultural Engineers (ISAE) and International Symposium on “Artificial Intelligence Based Future Technologies in Agriculture” held by the Dr. A.S. College of Agricultural Engineering and Technology, MPKV, Rahuri at Pune during 7-9, January 2020.

#### **(ii) National level**

1. Akbari S. H., Khatri M., Bhatt H. G. and Patel B. B. (2020). Technology for production of dried whole lime. A Paper presented in the Indian Horticulture Summit-2020, Chitrakoot, M.P.
2. Akbari S. H., Raval H., Bhatt H. G. and Patel B. B. (2020). Value Added products from Moringa leaves powder. A Paper presented in the Indian Horticulture Summit-2020, Chitrakoot, M.P.

**Books/Chapter or article published in books during year 2019-20 (Category Wise)****(i) Books published****(ii) Book chapter/article published**

Sr. No.	Name of Book	Book Chapter	Name of Author	Name of Publisher
1.	Research trends in Food Technology and Nutrition	Novel Techniques in Food Packaging	Vaishali, Samsheer, Harsh P. Sharma, Vipul Choudhry, Sunil, Mithun Kumar	Akinik Publications, New Delhi
2.	Unit operations in Food Engineering	Cleaning and Grading in Food Processing	Harsh P. Sharma, S.K. Chakraborty, H. Pandey	New India Publishing Agency, New Delhi
3.	Unit operations in Food Engineering	Size Reduction	Subir Kumar Chakraborty and Harsh Prakash Sharma	New India Publishing Agency, New Delhi
4.	Unit operations in Food Engineering	Evaporation	Subir Kumar Chakraborty and Harsh Prakash Sharma	New India Publishing Agency, New Delhi
5.	Unit operations in Food Engineering	Food Extrusion: Basic Concepts and Applications	H. Pandey, H.P. Sharma, D.C. Joshi and H.N. Mishra	New India Publishing Agency, New Delhi
6.	Encyclopaedia of Food Chemistry	Clarifying agents	Harsh P Sharma, Aditya Madan and D.C. Joshi	Elsevier Publication
7.	Practical manual. FPE 123 - Post Harvest Engineering. As per ICAR 5th Deans' Committee Recommendations	Practical manual	Patel, B., Akbari, S., Nema, A. and Sutar, R.	College of Food Processing Technology and Bio Energy, Anand Agricultural University, Anand
8.	Practical manual. FPT 243 - Processing Technology of Legumes and Oilseeds. As per ICAR 5th Deans' Committee Recommendations	Practical manual	Patel, B., Akbari, S., Nema, A., Sutar, R. and Sharma, H.	College of Food Processing Technology and Bio Energy, Anand Agricultural University, Anand

## VII. STUDENTS' WELFARE ACTIVITIES

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

### Hostel Facility

Separate well-equipped boys and girls hostels to accommodate U.G. and PG boys and girls students exist on the campus, which provide residential facilities to the students. During the reporting period 106 boys students (UG & PG) were accommodated in the Visvesvaraya boys hostel and 51 girls students (UG & PG) were accommodated in the Maitreyee girl's hostel. Each hostel is facilitated with a T.V., Guest and Reading room, gym and sports facilities, R.O. with Water Cooler, solar / gas water heating system and vehicle parking facilities. University primary health centre is offering the health services to the students and staff. During the reporting period Dr. A. K. Sharma (Professor), Er. A. N. Nakiya (Assistant Professor) and Mrs. Ameer Ravani, (Assistant Professor) worked as Rector and Assistant Rectors Boys and Girls, respectively.

Table 40 Hostel Facility of the College

Sr No.	Hostel Name	Floor	Room	Student Capacity	Actual Student Accommodated
1	Visvesvaraya	Ground	09	27	26
		1 <sup>st</sup>	12	36	35
		2 <sup>nd</sup>	12	36	35
2	Subhash	Ground	10	30	10
3	Maitreyee	Ground	07	14	18
		1 <sup>st</sup>	10	20	14
		2 <sup>nd</sup>	10	20	19

### Mess management

During the reporting period in all the hostels messes were run by the private contractor. Each hostel provided with all the required items like dining furniture, kitchen vessels, 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 hostel authority. A canteen facility through private contractor appointed by the university is available in the vicinity of hostel area. Similarly, another canteen and an Amul Parlour are situated on the campus near university bhavan for providing refreshment to the students on payment basis during the working hours.

Table 41 Activities carried out under NSS

S.No.	Activity	Date/Month	Place
1	International Yoga Day	21 <sup>st</sup> June, 2019	University Bhavan, AAU, Anand
2	Campus Ambassador	For the year 2019-20	Two Students appointed
3	Self-Motivated Plantation by NSS Volunteers	20 <sup>th</sup> July, 2019	College premise
4	Pot Plantation	6 <sup>th</sup> August, 2019	around the college building
5	Tree Plantation	22 <sup>nd</sup> August, 2019	College campus.

6	Food loss Awareness	26 <sup>th</sup> August, 2019	Seminar room, FPTBE, AAU, Anand
7	Cleanliness Campaign	20 <sup>th</sup> July and 6 <sup>th</sup> August, 2019.	Boys hostel, Girls Hostel, college premise of FPTBE, AAU, Anand
8	Celebration of “Independence Day	15 <sup>th</sup> August, 2019	Study tour of Gandhi Ashram (Ahmedabad), Environment Sanitation Institute, (GEER Foundation (Gandhinagar),
9	Celebration of 150 <sup>th</sup> birth Anniversary of Mahatma Gandhi	29 <sup>th</sup> August, 2019	FPTBE, AAU, Anand
10	Celebration of Anti-Addiction Week	2 <sup>nd</sup> October, 2019,	District level function was held FPTBE, AAU, Anand
11	Blood Donation Camp	19 <sup>th</sup> October, 2019	FPTBE, AAU, Anand
12	Celebration of Constitutional Day	26 <sup>th</sup> November, 2019	FPTBE, AAU, Anand
13	Thalassemia Screening Test and Counselling Camp	21 <sup>st</sup> December, 2019	FPTBE, AAU, Anand
14	Participation in Blood Donation Camp at Rajbhavan	18 <sup>th</sup> January, 2020	Rajbhavan, Gandhinagar
15	Republic Day Celebration	26 <sup>th</sup> January, 2020	University Bhavan, AAU, Anand.
16	NSS Special Camp (7 days)	29 <sup>th</sup> January to 4 <sup>th</sup> February, 2020	village Khadol, Taluka- Anklav, District- Anand

### **Educational Tour**

As part of the curriculum, an Educational Tour of 8<sup>th</sup> Semester B.Tech. (FPT) students for the academic year 2019-20 was conducted by department of Post Harvest Engineering & Technology. Dr. S. H. Akbari (Asso. Prof. & Head), Er Swati Anadani (SRA) and Mr. Rekit Barot, (Craft Teacher) planned and commenced the tour on December 27, 2019 (15 days) from Anand. The tour includes 37 boys and 08 girls including 03 staff members. The main objective of the tour was to visit as many technically important places related to food processing technology discipline and thereby exposing the students to the current and latest development in the field, industries and at institute-level. The efforts were made to visit industries related to packaging, meat and meat products, milk and milk products, fruits and vegetable, spices, oil, chocolate and beverages products and related raw materials and machineries.

Total 15 food companies/ institutes were visited and students gained knowledge about different aspects of the food products, food packaging, food engineering and their marketing. About 4100 km distance was covered during the entire tour mainly covering four states viz Gujarat, Maharashtra, Madhya Pradesh and Rajasthan.



## Prevention of Ragging in the College

The anti-ragging committee has been formed for prohibition of ragging in the college. The anti-ragging committee works as per the norms and directives of Hon'ble Supreme court. During the reporting period, no incident of ragging was observed in the college.

Table 42 Anti-Ragging and other Committees

1	Prof. S.S. Kapdi, Professor & Head, Dept. of Bioenergy	Chairman
2	Prof. R.V. Prasad, Professor & Head Dept. of Food Quality Assurance	Member
3	Prof. S.H. Akbari, Associate Professor & Head Dept. of Food Plant Operations	Member
4	Er. M.A. Makwana, Assistant Professor & Chairman Student's Representative Council	Member
5	Dr. A.K. Sharma, Professor & Head Food Engineering Dept & Hostel Rector	Member
6	Er. A. N. Nakiya, Assistant Professor & Assistant Rector (Boys)	Member
7	Mrs. Amee Ravani, Assistant Professor & Assistant Rector (Girls)	Member
8	Mr. N.M. Chavda, Assistant Professor & Coordinator (UG Academic)	Member
9	Dr. K. V. Vala, Assistant Professor & NSS Programme Officer	Member
10	Mr. Patel Arpit, Student (M.Tech FT)	Member
11	Ms. Theba Tabbu, Student (M.Tech FT)	Member

Table 43 Students' Discipline Committee 2019-20

1	Dr. R.V. Prasad, Professor & Head, Dept. of Food Quality Assurance	Chairman
2	Dr. S. Dutta, Associate Professor & Head, Dept. of Food Business Management & I/c Placement Cell	Member
3	Mr. G.P. Tagalpallewar, Assistant Professor, Dept. of Food Processing Technology & Chairman Students' Representative Council	Member
4	Er. A.N. Nakiya, Assistant Professor, Dept. of Food Engineering & Assistant Rector (Boys)	Member
5	Mrs. Amee Ravani, Assistant Professor, Dept. of Food Processing Technology & Assistant Rector (Girls)	Member
6	Er. K.V. Vala, Assistant Professor, Dept. of Food Engineering & Programme Officer (NSS)	Member
7	Dr. H.G. Bhatt, Associate Professor & Head, Dept. of FSQA	Member
8	Dr. D.B. Patel, Assistant Professor, Dept. of Food Business Management	Member
9	Dr. A.K. Sharma, Professor & Head, Dept. of Food Engineering & Rector FPTBE Hostels	Member Secretary

Table 44 Care Taker Committee 2019-20

### (A) Rector

1. Dr. A. K. Sharma (Rector Hostels)
2. Mr. A. N. Nakiya (Assistant Rector, Boy's Hostel)
3. Dr. Amee Ravani (Assistant Rector, Girl's Hostel)

### (B) Faculty Members

1. Dr. S.S. Kapdi (Prof. & Head, Bioenergy Department)
2. Dr. R.V. Prasad (Prof. & Head, FQA Department)
3. Dr. H.G. Bhatt (Assoc. Prof. & Head, FST Department)
4. Dr. H. Pandey (Assoc. Prof. & Head, FPT Department)
5. Dr. S.H. Akbari (Assoc. Prof. & Head, FPO Department)
6. Dr. S. Dutta (Assoc. Prof. & Head, FBM Department)
7. Dr. B.H. Joshi (Assoc. Prof., FQA Department)

8. Dr. D.B. Patel (Assistant Prof., FBM Department)
9. Mr. R.B. Modi (Assistant Prof., FPT Department)
10. Mr. G. P. Tagalpallewar (Assistant Prof., FPT Department)
11. Dr. H.P. Sharma (Assistant Prof., FPT Department)
12. Mr. J. K. Momin (Assistant Prof., FPT Department)

Table 45 Committee members of the Women Cell

1	Smt. H.H. Chavda	Associate Professor	Chairperson
2	Smt. Ameer Ravani	Assistant Professor	Member
3	Ku. Priti Thakar	Balwadi Teacher	Member
4	Smt. Sonal Makwana	Jr. Clerk	Member

### **Computer cell**

A well-equipped computer cell having internet connectivity has been established in the college. The practical classes of U.G. & P.G. students for computer applications are conducted. Besides this, the facilities are also utilized by the students for their research data analysis, reviewing research articles, preparation of presentations, etc. Presently, the cell is having 26 computers with licensed operating system softwares like Office, Turbo C compilers, etc.

## VIII. TRAINING AND PLACEMENT

The details about placement of outgoing students through campus interviews in different food processing and related organisations 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. G. P. Tagalpallewar, Assistant Professor, Department of Food processing Technology worked as the In-charge, Training and Placement Cell. Dr. S.R. Bhise assisted him in the activities.

Table 46 Details of In-plant trainings of 8<sup>th</sup>semester U.G. students during 2019-20

Sr. No.	Name of Organization	No. of Students	
		U.G.	P.G.
1	Amul Dairy, Anand.	4	
2	Amulfed Dairy, Gandhinagar	2	
3	Ayoni Foods Pvt.Ltd., Rajkot	2	
4	Austin Foods and Beverages Pvt. Ltd., Anand	3	
5	AzafranInnovacionLtd., Ahmedabad	2	
6	CALF Laboratory-NDDB, ANAD	2	
7	ITC Life Science and Technological Center, Bengaluru	2	
8	DudhsagarDairy, Mehsana	1	
9	Global Gourmet Private Limited, Vadodara	1	
10	Green Fibre Foods (India) Pvt. Ltd., Navasari	1	
11	Hindustan coca cola beverage Pvt. Ltd.,Goblej	2	
12	Jayant Snacks and beverages, Rajkot	1	
13	Maharaja dehydration pvt. Ltd., Mahuva	1	
14	Mirtillo International, Mumbai	2	
15	Parle Products Pvt. Ltd., Bhuj	2	
16	Parle Biscuits Pvt. Ltd., Maharashtra	2	
17	PatanjaliAyurved Ltd.,Haridwar	2	
18	Surat District Cooperative Milk Producer Union Ltd., Surat	2	
19	Vadilal Industries Limited, Gandhinagar	1	
20	Vivan Dairy, Junagadh	2	
	Total	37	

Table 47 Number of students recruited through campus interviews (2019-20)

Sr. No.	Name of Organization	No. of Candidates offered Job	
		U.G.	P.G.
1	Print and Pack Pvt. Ltd., Ahmedabad	1	--
2	Dhara Foods PVT. LTD., Nadiad	1	--
3	Maharaja Dehydration PVT. LTD. Mahuva	1	--
4	Sachchade Food Pvt. Ltd., Ahmedabad	1	--
5	Jayant Sancks & Be. PVT. LTD., Rajkot	1	--
6	Amees Cooling System, Ahmedabad	1	--
7	Innovative Cusines , Karjan	1	--
8	Ocenic Food, Jamnagar	1	--
9	Phoenix Foods, Mogar	1	--

10	Saraf Food, Baroda	2	--
11	Coca cola, Goblej	2	--
12	Euro Food, Surat	1	--
13	Dhaandhar Foods, Palanpur	1	--
14	Gramin Bank, Keshod	1	--
15	Kitchan Express, Ahmedabad	--	1
16	Iscon Balaji, Kanjari	--	1
17	CALF Lab., NDDDB, Anand	--	1

Table 48 Year wise placement of graduates and post-graduates

Year	No. of graduates / post graduates passed	Placement				Higher studies
		Private firm	SAU	Bank / Semi Govt. / NGO	Self Employed	
2010	5	2	-	-	-	2
2011	6	4	2	-	-	-
2012	7	5	-	-	-	-
2013	34	15	-	-	1	17
2014	38	28	-	-	1	6
2015	42	26	-	-	3	6
2016	41	28	-	-	2	7
2017	40	19	-	-	2	15
2018	43	25	-	-	2	11
2019	52	18	6	1	1	10

## IX. PASSED OUT STUDENTS

Table 49 Passed out under graduate students (2019)

SR. No.	Uni Reg. No	Name of the student
1	07-0213-2015	Ansari M.
2	07-0214-2015	Bhalara Yashkumar P
3	07-0215-2015	Bhimani Darshankumar R
4	07-0216-2015	Chauhan Pratixaben N
5	07-0217-2015	Dholu Uttamkumar Chunilal
6	07-0219-2015	Gohil Tarunkumar Kiranbhai
7	07-0220-2015	Karetha Daxaben Bhikhabhai
8	07-0221-2015	Khede Kratika Ashok
9	07-0222-2015	Kuriya Jayeshkumar Kantilal
10	07-0225-2015	Pasnani Dipsagar Pradipbhai
11	07-0226-2015	Patel Akbarhusen M
12	07-0227-2015	Patel Arpitkumar H
13	07-0228-2015	Patel Kiran Kanubhai
14	07-0229-2015	Patel Nidhiben Bhikhalal
15	07-0230-2015	Patel Purvangi Alpeshkumar
16	07-0232-2015	Piyush Thakur
17	07-0233-2015	Prajapati Santoshbhai S
18	07-0234-2015	Rathwa Rahulkumar G
19	07-0236-2015	Saradhara Savankumar R
20	07-0237-2015	Savalia Yugma Kantilal (B-2)
21	07-0239-2015	Thakor Dipakkumar Amrutji
22	07-0240-2015	Trivedi Divyeshkumar J
23	07-0241-2015	Vadgasiya Dhaval B
24	07-0242-2015	Zalavadiya Harsh Ashokbhai
25	D7-0243-2016	Borsania Arazu M
26	D7-0244-2016	Chhatvani Ronak Shyamlal
27	D7-0245-2016	Garachar Kajal Kalabhai
28	D7-0246-2016	Kadecha Dhruv Harshadbhai
29	D7-0247-2016	Nandaniya Jitendra Arjan
30	D7-0248-2016	Parmar Premji Bhikhabhai
31	D7-0249-2016	Priyam Ojasbhai Thakrar
32	D7-0250-2016	Theba Tabbuben Yusufbhai
33	D7-0211-2015	Vasava Ganpatbhai R
34	D7-0172-2014	Makvana Kishan Manojbhai
35	07-0175-2014	Babariya Ronak Kishorbhai
36	07-0180-2014	Boghara Chintankumar D
37	07-0204-2014	Thumar Monal Tarunkumar
38	07-0158-2013	Patil Mehulkumar R
39	07-0127-2012	Taral Nalinkumar M

Table 50 Passed out post graduate (M. Tech.) students (2019)

Seat	Uni Reg. No	PG program	Name of the student
1	04-3262-2017	M. Tech. (FPT)	Snigdha Bhardwaj
2	04-3263-2017	M. Tech. (FPT)	Vahora Kshushbu Altafbhai
3	04-3247-2017	M. Tech. (FPT)	Ghadiyali Hrutvika
4		M. Tech. (FPT)	Maradiya Ashruti Bhagavanjibhai
5		M. Tech. (FPT)	Parmar Rohankumar
6		M. Tech. (FPT)	Patel Hiralben Amrutbhai
7		M. Tech. (FPT)	Rathod Devalba Jaydeepsinh
8		M. Tech. (FPT)	Raval Harsh Mukundray
9	04-3248-2017	M. Tech. FT - (FPE)	Gohil Swetaben Rameshbhai
10	04-3249-2017	M. Tech. FT - (FPE)	Kahtri Maheshkumar Nareshbhai
11	04-3250-2017	M. Tech. FT - (FPE)	Dave Krupali D*
12	04-3260-2017	M. Tech. FT - (FSQA)	Saiyad Akhtarhusain Yakubali
13	04-3254-2017	M. Tech. FT - (FSQA)	Pargi jigishaben Shankarbhai

\* Indicates – In service candidates.

Table 51 Passed out post graduate (Ph. D.) students (2019)

1		Ph.D.(FPT)	Kajal Karnatak
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ગુજરાત સરકાર Government of Gujarat  
FORM C



Food And Drugs Control Administration, Gujarat State  
પચાનો / License

(નિયમન ૨.૧.૪(૬)) / [See Regulation 2.1.4(6)]  
પાલ સુરક્ષા અને ધોરણ અધિનિયમ ૨૦૦૬ Food Safety and Standards Act, 2006

પચાનો ક્રમાંક / License Number : 1071700400460

1. પચાનોદાર નું નામ અને નોંધાયેલ સ્થળી નું સરનામું  
Name & Registered office Address of Licensee COLLEGE OF FOOD PROCESSING TECHNOLOGY & BIO-ENERGY / DR. D. C. JOSHI
2. અધિકૃત જગ્યાનું સરનામું  
Address of Authorized premises ANAND AGRICULTURAL UNIVERSITY, ANAND, ANAND, (GUJARAT) - 388004
3. ધંધાનો પ્રકાર / kind of Business  
Manufacturer, Retailer, Wholesaler
4. ધંધાનો પ્રકાર ની વિગત / Dairy Business Details  
No
5. પચાનો નું પ્રકાર / Category of License:  
State

પચાનો સંભાળવાની અને ધોરણ અધિનિયમ, ૨૦૦૬ ની પોષકમૂલ્યો જે આ લાયકાતને ફેરવા આપવામાં આવે તે બે તરફનું પ્રયત્ન કરવો પડેલો છે તે સંબંધે.  
This license is granted under and is subject to the provisions of FSS Act, 2006 all of which must be complied with by the licensee.

સ્થાન / Place: Anand  
તારીખ / Date: 13/12/2017  
ડિઝિગ્નેટિંગ અધિકારી ની સહી અને સિક્કા / Stamp & Sign. of Designated officer  
પોષક અને ધોરણ નિયંત્રણ મુ. સ. / Food and Drug Control Administration, G.S.

પાનના આધાર અને નવિર્ધાર / Validation And Renewal

License Issue / Renewal Date	Period of validity / Renewal Date	License fee Paid / ચુકવેલો ભાડો	Items of Food products authorized to Manufacture / Re-pack / Re-label	Insulated handling Capacity	Signature of Designated officer / ડિઝિગ્નેટિંગ અધિકારી ની સહી
13/12/2017	12/12/2022	Rs. 15000	Please refer to annexure for details.	Please refer to annexure for details.	



ગુજરાત સરકાર Government of Gujarat  
FORM C



Food And Drugs Control Administration, Gujarat State  
પચાનો / License

(નિયમન ૨.૧.૪(૬)) / [See Regulation 2.1.4(6)]  
પાલ સુરક્ષા અને ધોરણ અધિનિયમ ૨૦૦૬ Food Safety and Standards Act, 2006

License Number: 1071700400460

Items of Food products with capacities installed authorized to Manufacture / Re-pack / Re-label

Other Food processing units

Sl. No.	Product Description	Quantity ( MT/Day)	Kind of Business
1	Cakes, Cookies, Biscuit 07.2.1	0.2	Manufacturer
2	Bread type Products 07.1.4	0.2	Manufacturer
3	Hard Candy 05.2.1	0.2	Manufacturer
4	Fruit Vegetable Juices 14.1.2	0.1	Manufacturer
5	Canned Fruits/Vegetables 04.2.2.4	0.1	Manufacturer
6	Ready to Eat Food Products 15.1	0.1	Manufacturer

Kind of Business : Food Business Operator

Wholesaler

Sl. No.	Food Product Category
1	04 - Fruits and Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds
2	05 - Confectionery
3	07 - Bakery products
4	14 - Beverages, excluding dairy products
5	15 - Ready - to - eat savouries

Retailer

Sl. No.	Food Product Category
1	04 - Fruits and Vegetables (including mushrooms and fungi, roots and tubers, pulses and legumes, and aloe vera), seaweeds, and nuts and seeds
2	05 - Confectionery
3	14 - Beverages, excluding dairy products
4	15 - Ready - to - eat savouries
5	07 - Bakery products

ડિઝિગ્નેટિંગ અધિકારી ની સહી અને સિક્કા / Stamp & Sign. of Designated officer  
પોષક અને ધોરણ નિયંત્રણ મુ. સ. / Food and Drug Control Administration, G.S.



**NABL**

**National Accreditation Board for Testing and Calibration Laboratories**

(An Autonomous Body under Department of Science & Technology, Govt. of India)

**CERTIFICATE OF ACCREDITATION**

**FOOD QUALITY TESTING LABORATORY, ANAND AGRICULTURAL UNIVERSITY**

has been assessed and accredited in accordance with the standard

**ISO/IEC 17025:2005**

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

College of Food Processing Technology and Bio-Energy, Anand, Gujarat

in the discipline of

**CHEMICAL TESTING**

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Certificate Number T-4100

Issue Date 06/09/2016



Valid Until 05/09/2018

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the additional requirements of NABL.

Signed for and on behalf of NABL

N. Venkateswaran  
Program Manager

Anil Relia  
Director

Prof. S. K. Joshi  
Chairman



**UG PASSED OUT BATCH 2019**



**PG PASSED OUT BATCH 2019**