

COLLEGE OF DAIRY TECHNOLOGY, UDGIR

ANNUAL REPORT 2016-17

1. INTRODUCTION :-

Government of Maharashtra has established College of Dairy Technology, Udgir (Dist. Latur) on 8th of August 2008 under Marathwada Development Programme as a constituent college of Maharashtra Animal and Fishery Sciences University, Nagpur. The main aim of the institute is to enlighten and empower students by imparting advanced knowledge in the fields of dairy technology by adopting innovative, efficient and effective strategies. The college was started in the small structure belonging to College of Veterinary and Animal Science, Udgir and as temporary arrangement, services of teaching and non- teaching staff were pulled from College of Dairy Technology, Warud (Pusad). College started functioning in the small building of COVAS, Udgir as temporary arrangement. It was shifted on 26th Jan, 2010 to new structure, which was Goat and Sheep farm. Within short span of time, the college acquired basic facilities required for B. Tech (Dairy Technology) degree programme.

College offering B. Tech (Dairy Technology), a four year degree course based on ICAR pattern and having the intake capacity including ICAR is 36 students. The course curriculum is on the line of ICAR, New Delhi, which consist of 8 semesters covering one hands on training and one industrial training at multi-product dairy plant all over the country. Beside this for efficient education, institute provides facilities such as internet, intranet, website, sport grounds and its materials. Institute initiated various facilities for the students on no loss and no profit basis viz. transport, tea/Coffee, photocopy, lamination, spiral binding, Wifi campus, Optical Fiber Cable, CCTV, etc.

College library has collection of 3843 books, costing more than Rs. 41.50 lacs. In addition to this, library is dealing with 18 research and extension related monthly magazines and periodicals, 14 Marathi and English news papers. The books and magazines for competitive examinations are also available in the library. The library has soul software and photo copy facility. Department of Computer Science consists of 34 computers and all are with internet facility and made available for staff/students of institute. So as to develop educational skills and to strengthen teaching methods, the class

rooms are equipped with audio visual aids such as LCD projector, plasma TV and Interactive white boards with internet facility-2MBPS through optical fiber. College gymkhana has good collection of sport materials for national and western games. basketball, volleyball, badminton, kabaddi, kho-kho play grounds for outdoor games are available in the premises. The facilities for indoor games such as Table-Tennis, Chess and Carrom are also made available to the students and Gym facility available with the institute. For overall development of students different programs viz. Shree Ganesh festival, College foundation day, Fresher's function and orientation programme for newly admitted students and farewell function for the final year outgoing students are being organized.

The NSS activity was commenced from 2009 with 50 volunteers, increased to 60 as regular volunteers and 30 for special activity. Four special camps were organized under NSS at Lohara (March 2011), Barhali and Loni (March 2012) Kavalkhed (2013) ,Sumthana, Udgir (March 2015), Vadhavana (Khu.) Udgir (March-2016) and Vadhavana (Khu.) Udgir (March-2017) respectively.

To execute the different extension activities such as trainings/workshops for milk producer, rural unemployed youth and rural women empowerment, a small Training and Extension cell was developed at the college. The training hall is well equipped with various extension aids like moving trans-slide, LCD Projector, flex boards, khoa machine, juice dispenser, Sound system, Television; 03 glass fabricated Models, 14 Rollup banners, 12 Informative charts, 20 eco solvent boards etc. Further it is point out that , two students from the first batch of the college secured 1st and 3rd rank in All India Entrance Examination for Post Graduate Studies conducted by ICAR during 2012 , 2nd rank 2013. 3rd rank during 2014 and 5th rank in ICAR AIEEA 2015-16.

2. ESTABLISHMENT

Cadre wise list of teaching and non teaching post on college;

A. Academic Officers

Sr. No	Name of Cader	Sanctioned	Filled	Vacant
1	Associate Dean	01	01*	00
2	Professor	02	01	01
3	Associate Professor and Equivalent	04	00	04
4	Assistant Professor and Equivalent	10	08*	02
Total		17	10	07
*filled post on Ad-hoc basis				

A. Non-teaching officers/Employees

Sr. No	Name of Cadre	Sanctioned	Filled	Vacant
1	Rural New Technician Evaluation cum broad casting	02	00	02
2	Stenographer lower grade	01	00	01
3	Junior Engineer (Civil)	01	00	01
4	Senior Clerk	01	01	00
5	Laboratory Assistant	03	00	03
6	Clerk cum typist	04	01	03
Total		12	02	10

Total strength = (A+B) = 29

Non-teaching: (Outsourcing)

Sr. No	Name of Cadre	Sanctioned	Filled	Vacant
1	Driver	02	02	0
2	Electrician	01	01	0
3	Junior Mechanic (Mechanic and cooling)	01	0	1
3	Clerk cum Typist	03	03	0
4	Laboratory Attendant	05	05	0
5	Peon	02	02	0
6	Ground man/Attendant	04	04	0
Total		18	17	1

C. Details of the Faculty members

Name of the Department-Dairy Chemistry							
Sr. No	Name	Designation	Phone (Ext)	Phone (R)	Mobile No.	E-Mail	Remark
1.	Dr. MR Patil	Associate Dean		(02385) 254754	8554002111	madhavpatil34@gmail.com	
2.	Dr.D.N.Bajad	Professor	-----	-----	9422868714	dnbajad34@gmail.com	
3	Shri.N.R.Pawar	Assistant Professor (Adhoc)	-----	-----	9423672616	nrpawar26@gmail.com	
Name of the Department-Dairy Technology							
1	Dr. S.D. Kalyankar	Assistant Professor	-----	-----	9423435757	sdkalyankar@gmail.com	Services Pulled from CDT, Warud Establishment.
2	Shri. Shaikh Adil Shaikh Baddu	Assistant Professor (Adhoc)	-----	-----	9422484967	adilshaikh36@yahoo.com	
	Ms.P.A. Yawale	Assistant Professor (Adhoc)	-----	-----	9175447087	Priya.yawale@gmail.com	
Name of the Department-Dairy Microbiology							
1	Shri.P.R.Bachantti	Assistant Professor (Adhoc)	-----	-----	9405504375	bachanti.prashant@gmail.com	
Name of the Department-Dairy Engineering							
1	Shri.S.S.Chopde	Assistant Professor (Adhoc)	-----	-----	9011799266	santosh.der@gmail.com	
2	Shri.B.B.Chavhan	Assistant Professor (Adhoc)	-----	-----	9168135153	bhaveschavhan90@gmail.com	
Name of the Department Dairy Economics, Extension and Management							
1	Dr.V.D.Kele	Assistant Professor (Adhoc)	-----	-----	8805886474	vijaykele@gmail.com	
Name of the Department- Computer Science							
1	Shri.M.A. Deshmukh	Assistant Professor (Adhoc)	-----	-----	9960561594	mdeshmukh.cdt@gmail.com	

3. SCHOLARSHIPS/FELLOWSHIPS

Scholarships/Fellowships are awarded to as many students as possible. Following are details for the year 2016-17. The Department of Science and Technology, Govt. of India is providing inspiration scholarship. Besides, private organizations are also providing scholarship to the students.

Sr.No.	Name of Scholarship / Free-ship	Number of Students		Total Amount (Rs.)
		Boys	Girls	
1.	VJNT-GOI Scholarship	12	1	177505
2.	ST--GOI Scholarship	1	1	35150
3.	SC--GOI Scholarship	6	2	149420
4.	OBC--GOI Scholarship	15	2	238895
5.	SBC--GOI Scholarship	--	--	---
6.	VJNT-GOI Freeship	1	1	30210
7.	ST--GOI Freeship	--	1	15105
8.	SC--GOI Freeship	--	2	30210
9.	OBC--GOI Freeship	--	--	---
10.	SBC- GOI Freeship	--	--	---
11.	NTS	5	--	120000
12.	ICAR JRF	--	--	---
13.	Minority	1	--	---
14.	Private scholarship	--	--	---
Total		41	10	796495

4. All India Entrance Examination for PG admissions

The results of the students from the University who have graduated and appeared for PG admissions for All India Entrance Examinations to the PG programme conducted by ICAR is given below :

Name of College	Qualified for JRF	Qualified for SRF	Student receiving JRF	Student receiving SRF	Remarks
CDT, Udgir	-Nil-				

5. HOSTEL ACCOMMODATON : Nil

6. LIBRARY

Details of Libraries of MAFSU

Sr. No.	Name of College	Item	Number of Books Available	New Books Purchased / Added during 2016-17	Amount Spent Rs.
1.		Books	3843	--	--
		Journals	18	7	14,190.00
		Other Publications (Thesis & Bound Volumes)	--	--	--
		Electronic Database	--	--	--

7. INFRASTRUCTURE/EQUIPMENTS (Pl give information for infrastructure / equipments above Rs. 50,000/- with good quality photographs)

8. (MAH) REMOUNT AND VETERINARY SQUADRON, NCC UNIT

Students Performance in NCC

Sr. No.	Type of Examination	Number of Students Passed	Camps			Remarks
			Place	Number of Students Participated		
				Male	Female	
1.						

Any other important information related with NCC if any.

9. HUMAN RESOURCE DEVELOPMENT

Conference/Symposium/Workshop/Summer and Winter Institute/Seminar/Short term training courses etc. **attended by the faculty members**

Sr.No.	Name of Teacher	Date	Place	Name of Conference / Symposium etc
1.	Dr. V.D. Kele Assistant Professor Department of Dairy Business Management	February 27, 2017	Department of Political Science & Public Administration, Degloor Collage Degloor, dist- Nanded	Interdisciplinary National Conference on "Research Methodology"
2.	Dr. S.D. Kalyankar Assistant Professor, Department of Dairy Technology	March 20- 21, 2017	Rajarshi Shahu Mahavidyalaya (Autonomous), Latur	Practices In Sustainable Agriculture, Aquaculture and Animal Husbandry (PISAAA-2017)
3.	Shri. M. A. Deshmukh Assistant Professor, Department of Computer Science & Statistics	March 20- 21, 2017	Rajarshi Shahu Mahavidyalaya (Autonomous), Latur	Practices In Sustainable Agriculture, Aquaculture and Animal Husbandry (PISAAA-2017)

10. RESEARCH (2016-17)

ONGOING RESEARCH PROJECTS IN 2016-17

A. Funding Agency wise number of ongoing research projects : Nil

Sr. No.	Name of the funding agency	No. of projects	Rs. In Lakh
1			
	Total Number of Projects		

B. Funding Agency Wise Details of Ongoing Research Projects in 2016-17 : Nil

Name of Funding Agency:

Sr. No.	Name of Scheme/ Title of Project	Name of P. I. & Address of Institution	Date of Start	Duration	Rs. In Lakhs
Total					

COMPLETED RESEARCH PROJECTS IN 2016-17

C. Funding Agency wise number of completed research projects : Nil

Sr. No.	Name of the funding agency	No. of projects	Rs. In Lakh
	Total Number of Projects		

D. Funding Agency Wise Details of Completed Research Projects in 2016-17 : Nil

Sr. No.	Name of Scheme	Name of P. I. & Address of Institution	Date of Start	Duration	Name of Funding Agency	Rs. In Lakhs

E. MEMORANDUM OF UNDERSTANDING : DETAILS WITH PHOTOS

F. STUDENT'S RESEARCH (Department wise)

	Name of the Department	:	Dairy Business Managment
	Title	:	DEVELOPMENT OF LOW COST ODOURLESS SOYA BASED PANEER
	Conclusions	:	The present study was conducted to establish feasibility and acceptability of soya based paneer. Keeping in view the functionality and nutritional benefit of soya milk, soya milk based paneer was developed with the objective of improving quality and acceptability of soya Paneer. Three treatment viz. 15 (T1), 25 (T2) and 35 (T3) per cent addition of cow milk along with <i>Cinnamomum zeylanicum</i> & <i>Syzygium aromaticum</i> (@ 01 percent) and control without incorporation of cow milk were studied. The result showed significant difference among treatments with respect to acceptability and nutritional value. It was found that the addition of cow milk at 25 per cent level along with <i>Cinnamomum zeylanicum</i> (Dalchini) & <i>Syzygium aromaticum</i> (Clove) has improved the nutritional & medicinal benefit and increased the acceptability of soya paneer. Similarly the cost of production was less up to 65 percent that of milk paneer.

	Name of the Department	:	Dairy Technology
	Title	:	DEVELOPMENT OF WHEY BASED BEVERAGE TO COMBAT MALNUTRITION
	Conclusions	:	Whey, a high nutritious by-product of the dairy industry, is increasingly used as a main ingredient in functional beverages and foods worldwide. Similarly, fruit and Vegetable juices are valuable source of antioxidants because they contain a significant amount of bioactive compounds. The root plants like <i>Beta vulgaris</i> (beetroot) possesses wide range of compounds like flavonoids, phenolic acid, amino acid, ascorbic acid, tocopherol and pigments. The antioxidant

		rich extracts of beetroot and fresh whey can be utilized for the preparation of refreshing, & energizing beverage that not only improve the health but also fulfils the nutritional requirements, which will effectively combat the malnutrition. The beverage was prepared by combination of fresh whey and beetroot juice. The whey beverage prepared in the ratio of 80:20 by using the beetroot juice rated most acceptable by a panel of judges on a nine point hedonic scale. The prepared beverage was packed in autoclave able glass bottles and stored at refrigerated temperature satisfactorily for the period of more than 30 days.
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G. STAFF RESEARCH (Department wise) :Nil

H. . RESEARCH PUBLICATIONS

To avoid the repetitions of research papers, it is requested to include the research paper from the Department of first author only

Departmentwise Research Publications

Sr. No.	Name of Department	No of Research Papers		
		National	International	Total
1.	Dairy Engineering	03		03
2.	Dairy Microbiology	01		01
	TOTAL	04		04

Details of Research Publications

Sr. No.	Name of Author/s	Year of Publication	Title of Research Artical	Name of the publication /Journal,Volume, Edition, page Nos. etc
1.	Kakan AK, Changade SP &Chopde SS	2016	Effect of incorporation of Paneer whey on dough characteristics and organoleptic attributes of milk bread	Asian Journal of Dairy and Food Research, 35(2), 2016: 143-148
2.	Santosh S Chopde,Madhav R Patil and Adil Shaikh	2016	Solar technology: A way to the prosperity of Indian dairy industry	Indian J Dairy Sci. 69(4), 2016 : 375-381
3.	D.N. Bajad, S.D. Kalyankar, M.A. Dehmukh, P. R. Bachanti and G.S.	2016	Impact of Physico-Chemical Properties of Mix on the Final Quality of Ice-Cream	Asian J. Dairy & Food Res, 35 (4) 2016 : 293-297

	Bajad			
4.	Bhavesh Chavhan, C. Sahu, A.K. Agrawal and R.K. Sahu	2016	Study on moisture desorption characteristics and isosteric heat of dairy whitener	Eco, Env & Cons., 22, 2016: S235-S241

11. EXTENSION EDUCATION AND TRAINING (Give only two good quality photos with caption for each Extension Activity)

A. Short Term Training Courses for Field Officers :

Sr. No.	Title	Date	No. of Trainees	Sponsoring Agency
01	Biodiversity, Sustainable people & Their Livelihood	22 May 2016	26	CDT, Udgir
	Total		26	

B. Short Term Training Courses organized for farmers

Sr. No.	Title	Date	No. of Trainees	Sponsoring Agency
01	Upliftment of Dairy Farmers/ milk Producers	21 to 23 March 2017	42	ATMA Office, Latur
	Total		42	

C. Workshop/ Seminars organized for Field Officers : Nil

Sr. No.	Title	Date	No. of Participants	Sponsoring Agency
	Total			

D. Workshop/ Seminars organized for farmers

Sr.No	Title	Date	No. of Participants	Sponsoring Agency
1	Soya Milk & Soya Paneer Manufacturing Technology	27.05.2016	10	CDT, Udgir
2	Soya Milk & Soya Paneer Manufacturing Technology	23.09.2016	250	Jointly organized with Sharadchandra Mahavidyalay, Naygaon

3	Clean Milk Production	03.12.2016	25	CDT, Udgir
4	Manufacturing of milk and milk products at cottage level	03.12.2016	21	CDT, Udgir
5	Clean Milk Production	09.03.2017	15	CDT, Udgir
6	Clean Milk Production	15.03.2016	42	CDT, Udgir
Total			363	

12. ACTIVITIES IN ADOPTED VILLAGES (Give information in text form in 8-10 lines)

College of Dairy Technology, Udgir has organised several activities in adopted village (Vadhwana, Khu) so as to have livelihood security of farmer. Activities undertaken were Importance of Daring to Combat with Malnutrition;

- ✚ Exploring and awareness on effective dairy farming methods
- ✚ Detection of various adulterants
- ✚ Animal Health check-up camp
- ✚ Self employment through dairying and Fishery
- ✚ Importance of Ghat Sheti
- ✚ Natural Farming
- ✚ Manufacturing technologies of traditional dairy products

13. HOSPITAL ACTIVITIES

14. ANIMAL HEALTH CAMPS ORGANIZED (Give only two good quality photos with caption)

Sr. No.	Place	Date	Organized in collaboration with (Name of Agency)	No. of Vaccination (With name of Vaccine)								Total
				Medicine	Surgery	Gynaecology	Artificial	Vaccination	Deworming	Spraying	Other if any	
1	Malhiparga, Tq:-Jalkot, Dist-Latur	02/12/2016	COVAS, Udgir	77	05	27	00	97	197	105		508

2	Vadhavana (Khu.), Udgir, Dist-Latur	18/03 /2017	COVAS, Udgir	92	00	34	0 0	122	95	177		520
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15. FARM ACTIVITIES (Give information separately for each farm under college)

Note: To include any other information number of columns may be increased if required

16. DEMONSTRATIONS ORGANIZED FOR FARMERS (Give only two good quality photos with caption)

Sr. No.	Place	Date	Name of demonstration	No. of farmers attended
	-Nil-			

17. VISIT OF FARMERS AND STAFF (Give only two good quality photos with caption)

Farmers regularly visited the various institutes of MAFSU individually and in groups to acquire the information and technical knowledge of various animal husbandry activities including that of value added animal products, poultry and fisheries. Staff members visited various places to guide the farmers, for trainings, for giving demonstrations at field level.**Do not include visit to adopted villages here.**

Sr. No.	College/ Institute/Farm	No. of Farmers Visited	No. of Field Visit of Staff
1.	CDT, Udgir	360	15

18. EXHIBITIONS (Organized / Participated) (Give only two good quality photos with caption)

Sr. No.	Title	Place	Date	No. of visitors	Organized / Participated
1	Animal Exhibition, (Malegaon Yatra,)	Malegaon Dist- Nanded	28.12.2016	250	Participated

2	Animal & Bird Exhibition, Havgiswami Yatra, Udgir	Jilha Parishad Ground, Udgir	13.01.2017	350	Participated
3	Dairy Exhibition	Malhiparga, Tq-Jalkot, Dist-Latur	02.12.2016	150	Organized
4	Animal, Fisheries & Dairy Exhibition	Vadhavana (Khu.) Tq-Udgir Dist-Latur	18.03.2017	270	Organized

19. PUBLICATIONS / RADIO & TV TALKS

A. Abstract of Extension Publications : (Give only total numbers in following table)

Name of college	Leaflets/ Booklets	Books	Local Publication (in News-paper)	Publications (Periodicals)	Radio programmes	T.V. programmes
CDT,	03	01	08	02	00	01

B. Details of Extension Publications as per above abstract should be given separately here.

20. WEB SITE: Address of College Website:

Institute having own website www.cdtudgir.in. Information related to college which is helpful for the student, farmers, SHG, women is published on the website. The website contains almost 72 pages information. The extension cell has provided information is in

MARATHI (folders, Booklet, FAQ, etc) for milk producers, farmers, unemployed youth, etc also college have provided Lab to Land operation through SMS facility.



21. AWARDS, HONOURS AND RECOGNITIONS: (Give good quality photos with caption)

A. Faculty Awards/ Achievements : Nil

Sr.No.	Name of Faculty	Name of Award / Achievement with details	Place	Date	Photo of receiving Award
1					

B. Students Award/Achievements

Sr.No.	Name of Student	Name of Award / Achievement with details	Place	Date	Photo of receiving Award
1					

22. VISITS OF DIGNITARIES / DISTINGUISHED VISITORS

It is requested to include visits of dignitaries to college (not departments) (Give good quality photos with caption)

Sr. No	Name of Dignitary with designation	Date	Purpose of visit
1	1)Prof. K. Padmakumar, Pro. Vice Chancellor, Kerala University of Fisheries, and Ocean /studies. 2)Dr. Jit Singh, Former Dean, MPUAT, Udaipur, Rajastan 3)Dr.G. Kenkateswarlu, ADG (EQA&R)	10.08.2016	ICAR Accreditation
2	Hon'ble Minister, Shri. Mahadevji Jankar Saheb, Ministry of Animal Husbandry, Dairy Development & Fisheries, Maharashtra	25.08.2016	Overview and Progress of the institute
3	Dr.AS Bannalika, Director of Research, MAFSU, Nagpur	29.08.2016	Overview of Research activities
4	Shri. MN Dongare, Hon'ble Executive Council, Member	30.09.2016	Overview and Progress of the institute

Director (E & T)
MAFSU, Nagpur