1) **NAME OF THE DEPARTMENT :**

Department of Animal Husbandry and Dairy Science

2) **ABOUT DEPARTMENT** :

The department of Animal Husbandry and Dairy Science came into existence in 1965 with the inception of the College of Agriculture, Dapoli. Since then the department has been imparting technical education to UG students. The post graduation in Animal Husbandry and Dairy Science was started in the year of 1974. In the beginning, combined degree was awarded to the PG students in Animal Husbandry and Dairy Science. In due course, admissions were made separately for Animal Husbandry and Dairy Science from 1982 and now separate PG degree is being awarded to the students in the discipline of Animal Husbandry as well as Dairy Science. The Ph. D programme in the discipline of Livestock Production and Management and Dairy Technology has been started from the academic year 2002-2003.

Mandate of the Department :-

- To impart instructions in the discipline of Animal Husbandry and Dairy Science to the students of UG and PG degree programme
- To carry out location specific and need based research in animal husbandry and dairy science based on the feedback from the extension agencies and farmers of the Konkan region.
- Dissemination of improved technology in livestock and poultry production amongst the farmers by imparting training to extension workers.
- To organize short duration training programmes in animal and poultry production for extension workers, NGOS and farmers.
- To supply seed and planting material of forage crops to the farmers.

3) ACADEMIC :

a) Doctoral Programmes : Animal Husbandry

Semester No.	Term No.	Course No.	Credits	Title of the course offered by the department
	I	AH 611	3(2+1)	Advances in Sheep and Goat Production
		Seminar 691	1(0+1)	Doctoral Seminar
		AH 611	3(2+1)	Advances in Sheep and Goat Production
		AH 601	3(2+1)	Advances in livestock production and management
		AH 602	2(1+1)	Advances in selection methodology
		AH 603	3(2+1)	Modern concept of feeding ruminants and forage utilization
		AH 607	2(2+0)	New feed resources in animal feeding
		AH 608	3(2+1)	Use of non additive genetic variance in farm animals
	II	AH 604	2(2+0)	Recent treands in Animal breeding
		AH 605	2(1+1)	Nutrition and rumen Fermentation
		AH 606	3(2+1)	Advances in Poultru Production
		AH 609	2(1+1)	Production of Organic Livestock Product
		AH 610	2(2+0)	Advances in quality control of livestock products

a) Doctoral Programmes : Dairy Science

Semester No.	Term No.	Course No.	Credits	Title of the course offered by the department
	I	DSC 601	3(2+1)	Advances in milk and milk products
		DSC 602	3(2+1)	Advances in Dairy microbiology
		DSC 603	3(2+1)	Advances in Dairy processing
		DSC 606	1(1+0)	Recent advances in sensory evaluation
		DSC 608	3(3+0)	Research and development management in Dairy Industry
		Seminar 691	1(0+1)	Doctoral Seminar
	II	DSC 604	3(2+1)	Advances in chemistry of milk processing
		DSC 605	3(2+1)	Recent trends in value added dairy products and by products
		DSC 607	2(1+1)	Advances in dairy food packaging

b) Masters Programmes : Animal Husbandry

Semester No.	Term No.	Course No.	Credits	Title of the course offered by the department
	I	AH – 501	2+1=3	Livestock Production and Management
		AH – 502	2+1=3	Principles of Animal Breeding
		AH – 503	2+1=3	Principles of Animal Nutrition
		AH – 508	0+2=2	Analytical techniques in Animal Nutrition
		AH – 501	2+1=3	Livestock Production and Management
		AH - 507	2+1=3	Ruminant Nutrition
	II	AH – 504	2+1=3	Animal Behavior and Integrated Livestock Farming
		AH – 505	2+0=2	Physiology of Lactation
		AH – 506	2+1=3	Population and Quantitative Genetics
		AH – 510	1+1=2	Sheep and Goat Production and Management
		AH – 509	1+1=2	Molecular Genetics in Animal Breeding
		AH – 505	2+0=2	Physiology of Lactation
		(Seminar) AH-591	0+1=1	Master Seminar

b) Masters Programmes : Dairy Science

Semester No.	Term No.	Course No.	Credits	Title of the course offered by the department
	I	DSC – 501	2+1=3	Market Milk Process Technology
		DSC – 502	2+1=3	Dairy Processing and Product Technology
		DSC – 504	2+1=3	Chemistry of Milk and Milk Products
		DSC – 501	2+1=3	Market milk Process Technology
		DSC – 510	2+1=3	Quality Control and Sensory Evaluation of Milk and Milk Products

		DSC - 505	2+1=3	Physico-Chemical Aspects of Milk Constituents and Milk Products
	II	DSC – 506	2+1=3	Microbiology of Milk and Milk Products
		DSC – 503	1+2=3	Traditional and Value Added Dairy Products
		DSC – 507	1+1=2	Dairy Starter and Fermented Milks
		DSC – 508	0+1=1	Technology of Milk By - Products
		DSC – 509	0+1=1	Packaging for Milk and Milk products
		(Seminar) DSC-591	0+1=1	Master Seminar

c) Bachelor Programme

Semester No.	Term No.	Course No.	Credits	Title of the course offered by the department
B.Sc. (Agri)		ASDS 111	2(1+1)	Livestock Production and Management
		ASDS 242	2(1+1)	Livestock Breeding and Nutrition
		AHDS 231	2(1+1)	Livestock breeds and nutrition including poultry
		AHDS 352	3(2+1)	Livestock production and management including poultry
		ASDS 353	2(1+1)	Technology of Milk and Milk Products
		ASDS 364	2(1+1)	Sheep and Goat Production
Sr. B.Sc.		AHDS 483	2(1+1)	Sheep and Goat Production
Sr. B.Sc.		AHDS 484	2(1+1)	Technology of Milk and Milk Products
Sr. B.Sc. (Agri)			2(0+2)	RAWE Programme
Sr. B.Sc. (Agri)		ASDS 475	2(0+2)	RAWE Programme
Sr. B.Sc. (Agri)		AEL-AHDS 486	20 (0+20)	Commercial Broiler Production (Experiential Learning Programme)
B.Tech. (Ag. Engg)		AG/AHD 112	2(1+1)	Livestock Production and Management
B.Tech. (Ag.Engg)		AG - 113	2(1+1)	Livestock Production and Management
B.Sc. (For)		F/ASDS 241	2(1+1)	Livestock Management

4) INFRASTRUCTURE :

5) FACULTY :
a) Academic staff :

Name of the faculty	:	Dr. Balkrishna Gunaji Desai
Post Held	:	Professor and Head
Date of birth	:	12/05/1961
Qualification	:	M.Sc. (Agri) Ph.D.
Area of Specialization	:	Livestock Production and Management
Experience (Year)	:	
Agril. Officer	:	2
Farm Superintendent cum Assistant Professor	:	11
Officer In-Charge cum Associate Professor	:	10
Professor	:	1
	:	
Research projects guided	:	
Ph.D.	:	--
M.Sc.	:	4
Present area of research	:	Animal Husbandry (Animal Nutrition Livestock)
Contact details	:	
Land line No.	:	02358 – 283064
Mobile No.	:	9422391409
Fax No.	:	02358 - 280539
Email	:	nandishal@yahoo.co.in headahds@gmail.com

Name of the faculty	:	Prof. Suhas Vasnat Joshi
Post Held	:	Assistant Professor
Date of birth	:	15/12/1956
Qualification	:	M.Sc. (Agri)
Area of Specialization	:	Dairy Science (Dairy Technology)
Experience (Year)	:	
Agril. Assistant	:	3
Agril. Supervisor	:	7
Agril. Officer		1
Assistant Professor (including experience of Farm Superintendent and Dairy Manager)	:	24
Research projects guided	:	13
Ph.D.	:	--
M.Sc.	:	13
Present area of research	:	Dairy Technology
Contact details	:	
Land line No.	:	02358 – 283111
Mobile No.	:	9404155355
Fax No.	:	02358 - 280539
Email	:	suhas.mau@gmail.com

Name of the faculty	:	Prof. Dilip Jairamji Bhagat
Post Held	:	Associate Professor
Date of birth	:	01/06/1959
Qualification	:	M.Sc. (Agri)
Area of Specialization	:	Animal Husbandry
Experience (Year)	:	
S.R.A.	:	5 Years
Assistant Professor	:	14 Years
Associate Professor		5 Years
Research projects guided	:	--
Ph.D.	:	--
M.Sc. (Agri)	:	2
Present area of research	:	Animal Husbandry
Contact details	:	
Land line No.	:	--
Mobile No.	:	9470201389
Fax No.	:	02358 - 280539
Email	:	djbhagat2010@gmail.com

Name of the faculty	:	Dr. Anand Jagannath Mayekar
Post Held	:	Assistant Professor
Date of birth	:	10/10/1963
Qualification	:	M.Sc. (Agri) and Ph.D.
Area of Specialization	:	Animal Husbandry (LPM)
Experience (Year)	:	
Agril. Officer	:	5 Years
Assistant Professor (including experience of Farm Superintendent and Dairy Manager)	:	11 Years
Research projects guided	:	--
Ph.D.	:	--
M.Sc.	:	--
Present area of research	:	Livestock Production and Management
Contact details	:	
Land line No.	:	02358 – 282822
Mobile No.	:	9422382881
Fax No.	:	02358 - 280539
Email	:	nanda.mau@gmail.com

Name of the faculty	:	Dr. V.S. Dandekar
Post Held	:	Assistant Professor
Date of birth	:	30/03/1963
Qualification	:	M.Sc. (Agri), Ph.D. (Dairy Science)
Area of Specialization	:	Dairy Microbiology
Experience (Year)	:	
Assistant Professor		26 years
Research projects guided	:	
Ph.D.	:	1
M.Sc.	:	3
Present area of research	:	Introduction of spirituality in Agriculture (Yogic farming)
Contact details	:	
Land line No.	:	02358 – 282480
Mobile No.	:	9420475320
Fax No.	:	02358 - 280539
Email	:	Vsdandekar3063@gmail.com

6. INSTRUCTIONAL FARM

a) Location : Dairy Department Farm

b) Infrastructure : Lecture (Practical) hall, Milking parler , Cow, Buffalo shed, Sheep and Goat shed, Office, store room, calf shed, Poultry shed, One open well, One borwell, One Gobargas, Vermi compost shed, compost pit, slaughter house, implement shed, Dustban

c) Activities : Education, Research and Demonstration

Laboratory 1 : Dairy Science

1) Milk Processing
2) Milk Products
3) Sensory and chemical evaluation
4) Shelf life studies

Laboratory 2 : Animal Husbandry

1) Identification and Proximate analysis of feeds and fodders
2) Health cover of farm animals
3) Artificial in insemination and pregnancy analysis
4) Established fodder crops museum
5) Cultivation of various fodder crops
6) Organized farm management practices

d) Photographs :

7. RESEARCH ACTIVITIES AND ACHIEVEMENT (INCLUDING PROJECTS)

a) Variety / Implements released :

b) Research Recommendations :

A) ANIMAL SCIENCE :

I] Breeding

a) Crossbreeding :- crossbreds with 50 per cent exotic inheritance of Jersey showed better performance under Konkan climatic conditions.

b) Performance of Gir cattle in the Konkan region of Maharashtra under organized farm management.

Gir an indigenous breed of cattle is recommended for milk production in the Konkan region.

II) Animal Nutrition :-

a) DEVELOPMENT OF FODDER CROP VARIETIES :

A variety of fodder cow pea (Konkan fodder cowpea) yielding 25-30 t/ha and Rice bean (Konkan Rice Bean–1) producing about 28 to 30 t/ha of green fodder in 60 days has been developed by the university.

b) Standardization of fodder Crop cultivation Practices :

1. **Maize :** African Tall variety of maize is proved to be the best for the Konkan region. The recommended seed rate is 100 kg & fertilizer dose of N is 200kg/ha in lateritic soils of South Konkan and 250 kg/ha for black cotton soils of North Konkan .
2. **Hybrid Napier :** Planting of NB-21 variety at a distance of 50 x 75 cm and cutting at an interval of 60 days with 6 cuttings a year found suitable for Konkan region with the fertilizer dose of 90kg N, 15 kg P_2O_5 and 30kg K_2O /ha before plantation and after each cut.
3. **Natural Grasses Production :**
   The biomass production of natural grasses viz. *Themeda* and *Heteropogan* sp. can be increased up to 12 tones per hectare by applying 30 kg N in split doses in July, August and September months.
4. **Improvement of grazing land :**
   By introducing *Stylosanthus hamata* in pasturelands the production can be increased from 2.3 tones to 4.5 tones in first year and 6.0 tones in second year per hector. During third year the pastures needs to be re-seeded with *Stylosanthus hamata*.
5. **Top Feed Utilization :**
   Chemical analysis indicates that top feeds such as Dhaman (*Grewia tiliafolia*), Umber (*Ficus glomerata*), Asana (*Bridelia retusa*), Pangara (*Erythrina indica*) and Bhend (*Thespesia populnea*) have the high nutritive values in respect to the DCP and TDN contents. However, the nutritional performance of leaves of Jamun (*Syzygium cumini*), Bibla (*Pterocarpus marsupium*), Banyan (*Ficus benghalensis*) and Ber (*Zyzyphus mauritina*) found to be comparatively poor. Tannin, an antinutritional factor was found in low quantity and varied from 0.23 per cent in *Abrus precatories* (Gunj) to 2.13 per cent in *Ficus benghalensis* (Banyan) and highest in Jamun (*Syzygium cumini*) tree leaves (5.87%).
6. **Increasing nutritive value of roughages: -** The method of urea-ammoniation has been standardized to improve the nutritive value of paddy straw and local dry grasses consisting of *Themeda* and *Heteropogan* species. It is also observed that good quality silage can be prepared from local grasses adding 2 kg low quality jaggary and 0.5 kg urea mixed in 30-40 litres of water and sprinkled over the ensiling material.

7. Minimizing Feeding Cost :

a) **Milk replacers: -** Suitable milk substitute using locally available ingredients has been developed. A suitable milk substitute is compounded with maize – 40%, GNC – 24%, tur chuni – 8%, Silk worm pupae – 7%, cashew apple – 10%, rice bran – 10%, fish meal – 8%, jaggary – 5%, and mineral mixture – 3%. This mixture proved to be suitable for reducing the rearing cost by 30-40 per cent.

b) **Use of fodder trees: -** Better growth performance can be achieved by feeding leaves of locally available fodder trees like Aapta (*Bauhinia variegate*), Gliricidia (*Gliricidia maculate*), Shevari (*Sesbana egyptica*), Dasharath (*Desmanthes virgatus*) and Subabhul (*Lencaena leucacephala)* leaves. This resulted in reducing feeding cost without hampering nutritive requirement of animal.

III) POULTRY SCIENCE :

❖ Use of tapioca root meal @ 20 per cent in broiler ration and 30 per cent in layer ration, mango seed kernel at 30 per cent level in layer feed, silk worm pupae at 25 per cent level and Takala (*Cassia tora*) leaves powder at the rate of 5 per cent found to reduce feeding cost by25 to 40 per cet.

B) DAIRY SCIENCE :

I) Milk Preservation :

To overcome the problem of storing the evening milk till next morning a 'Zero Energy Cool Chamber' has been developed. Similarly LP system activation @ 40:25 (H_2O_2: K-thiocynate) and use of Sodium hypochlorite @0.1 % is also recommended at farm level. By adopting these methods milk can be stored in good conditions upto 12 hrs. in winter and 10 hrs. in summer season.

II) **Milk Product Technology :**

1 **Flavoured butter Milk :-** Acceptable quality butter milk with good flavour and aroma can be prepared using 15 per cent cashew or 10 per cent kokam syrup.

2 **Lassi :–** Best quality flavoured lassi can be prepared from skim milk containing 0.5 and 1.5 per cent fat fortifying with 7.5 and 5.0 per cent mango pulp respectively.

3 **Milk Shake :–** Best quality fruit flavoured milk shake can be prepared by fortifying with 15 per cent pineapple juice or 10 per cent jamun juice or 10 per cent karona juice.

4 **Basundi :–** Best quality fruit flavoured basundi can be prepared from cow milk by fortifying with 7.5 per cent mango pulp.

5 Preparation of Khoa burfi blended with mango pulp (Alphonso) - It is recommended to use 15 percent Alphonso mango pulp (w/v), 5 per cent sugar (w/v) and 0.15 percent turmeric powder (w/v), of milk at pat formation stage of khoa making for preparation of acceptable mango khoa burfi from buffalo milk.

6 Manufacture of herbal ice-cream by incorporation of Ginger (*Zingiber officinale* L.) juice - The most acceptable quality ice-cram can be prepared by using 3.00 per cent ginger juice. Ginger juice had a positive effect on flavor, acceptability and resistance to melting.

7 **Preparation of Rosogolla blended with Alphonso Mango Pulp (*Mangifera indica* L) -** The incorporation of mango pulp @ 2.5 percent at the time of channa making in rosogolla increases its market value and also its therapeutic value.

8 **Preparation of skim milk lassi by incorporation of ginger (*Zingiber officinale* L.) juice** It is recommended that best acceptable quality lassi can be prepared from buffalo skim milk by using 3.0 per cent ginger juice.

c) Research outcome / findings :

d) Completed Research Project / Programmes/Schemes

Title : Assessment of Mineral Profile in Relation of Animals, Soil, Feeds and Fodders in Maharashtra for Improving Livestock Production Potential

UR Nos.

Objectives :

1) To determine the levels of minerals (Ca, P, Mg, Cu, Fe and Zn) in the serum of large ruminants (Cattle and buffaloes)
2) To estimate the mineral content of soils, feeds and fodders.
3) To generate data base in respect of minerals of Maharashtra State.
4) To establish the relationship between soils, plant and animals.

Name of PI/ Co-PI : Dr. R.G. Burte,

Sponsoring Agency : Govt. of Maharashtra State, Department of Animal Husbandry, Pune

Duration : 3 years

Total outlay : 10 lakh

Summary of Achievements

1) Ca and P was found deficient in soil of Ratnagiri and Sindhudurg district whereas Cu, Fe, Mg, Zn, were found adequate.
2) Ca, P, Mg and Zn were observed deficient in feed and fodder of Ratnagiri and Sindhudurg districts. However, Cu and Fe was observed adequate in feed and fodder of the region.
3) Ca, P and Mg were seen deficient in blood serum of cattle and buffaloes form Ratnagiri and Sindhudurg districts whereas Cu, Fe, Zn were seen adequate in blood serum of large ruminants in both the district.

Relevant photographs.

e) Ongoing Research Project / Programmes/Schemes :

1) Characterization of Non-descript cattle in Sindhudurg district of the Konkan region.
2) Performance of lactating buffaloes under different sets of housing management during summer in agro-ecological region of Konkan
3) Effect of Vedic hymns and Indian classical music on performance of lactating cattle**.**
4) Studies on production and reproduction performance of Vechur breed of cattle in Konkan region.

5) Effect of different dietary levels of Bhend (*Thespesia populnea*) leaves and paddy straw in goats.
6) Studies on different ectoparasites found in Konkan Kanyal goats
7) Comparative nutritional evaluation of different legumes in goats.
8) Comparative nutritional evaluation of different grasses in goats.
9) Effect of Black cummins (*Nigella sativa* L) seed powder supplementation on cholesterol content in broiler chicken
10) Manufacture of flavoured kheer fortified with jackfruit carpels
11) Utilization of high acid returned milk for preparation of concentrated milk products
12) Utilization of coconut milk in preparation of skim milk sandesh.
13) Preparation of fruit flavoured colostrum cake (*kharwas wadi*)

8) REPOSITORY OF ABSTRACTS OF THE THESIS :

Name of the candidate :
Degree for which the thesis / project report submitted
Year of submission :
Name of the Guide / Co guide
Abstract :

9) EXTENSION ACTIVITIES

a) The training programmes organized

1)

Title	:	Self employment development for unemployed youth
Sponsorer	:	Dr. B.S. K.K.V. Dapoli
Date and duration	:	1/05/2012 to 12/05/2012, 2 weeks
Participants	:	80
Schedule of the training programme	:	2 weeks
Special feature of the training programme	:	To give the employment apporchunaty
Photograph	:	

2)

Title	:	Cattle and buffalo management
Sponsorer	:	Dr. B.S. K.K.V. Dapoli
Date and duration	:	18/01/2010 to 22/01/2010, 5 Days
Participants	:	20
Schedule of the training programme	:	5 Days
Special feature of the training programme	:	To give the practical knowledge to increase the milk yield of the animal.
Photograph	:	

3)

Title	:	Goat raring
Sponsorer	:	Dr. B.S. K.K.V. Dapoli
Date and duration	:	15/05/2012, 1 Days
Participants	:	10
Schedule of the training programme	:	1 Days
Special feature of the training programme	:	To give the knowledge of goat keeping
Photograph	:	

b) Seminar/Synopsis/Conference/Workshop Organized

c) Farmer Melawa Organized

d) Radio/TV Talks delivered by the staff members of the Department / Section
Radio Talks

Prof. S.V. Joshi

१) अधिक फायद्यासाठी मांसल कोंबडया
२) हिरव्या वैरणीची साठवण
३) कोकणातील वैरणपिके
४) अंडयाची प्रतवारी आणि पॅकिंग
५) खरीप हंगामातील वैरणीची पिके
६) आहाराच्या दृष्टिकोनातून दुधाचे महत्व
७) दूध टिकविण्यासाठी सुधारित शीतकक्ष
८) ग्रामिण पातळीवर दूध टिकविण्यासाठी सुधारीत शीतकक्ष
९) अंडयांची प्रतवारी व विक्री
१०) फळांचा दुग्धजन्य पदार्थात वापर
११) गोठयांची स्वच्छता
१२) सूप तयार करणे
१३) अतिरीक्त दुधाचा विनियोग कसा कराल
१४) अतिरीक्त दुधाचा विनियोग
१५) भारतीय दुग्धजन्य पदार्थ
१६) दुधापासून वैविध्यपूर्ण दुग्धजन्य पदार्थ
१७) दुग्धजन्य पदार्थांचे वर्गीकरण आणि महत्व
१८) गायी-म्हशींच्या वासरांचे संगोपन

Prof. D. J. Bhagat

1) Bater (Lhawee) Palan ek Naween Wyawasaya.
2) Maka Ani Chawali -Upyukta Chara Peek
3) Unhalyatil Kukkut Palan Vyavasthapan.
4) Broiler Kombadyanche Vyavasthapan
5) To participate in programme Replies to Agri. Question raised by farmers.
6) Janavarasathi Adarsha Gotha.
7) Moorgha Tayar Karnyachi Paddhat.
8) Replies to Agril.Question.
9) Replies to Agril.Question.

10) Replies to Agril.Question.
11) Andyavareel Pakshache Khadya.
12) Kokanateel Kukut Palanachya Samsya Ani Upay.
13) Janavaranchya Aaharat Kshar Ani Jeevan Satache Mahatav.
14) Hivalyateel Kombadyanche Vyavasthapan.
15) Sankrit Vasarancha Aahar.
16) Dhubhtya Janavaranche Unnalee Vyavasthapan
17) Sheleesathi Chara Vyavasthapan.
18) Kombadee Palanacge Prashikshan.
19) Kukutpalan 21 Vya Shatakateel Samsya Ani Upay
20) Mousal Shelyanche Aahar Vyavasthapan.
21) Krumi Kitkancha Pashu Pakshanvar Honara Parinam (Int.).
22) Sakas Charyasathi Makyachee Lagavad.
23) Bater Palan Interview in F and H.
24) Kukut Palanateel Khaddyache Vyavasthapan. (Int. F & H)
25) Moorghas Tayar Karnyachi Paddhat.
26) Broiler Kombadyanche Vyavasthapan-Int.
27) Sudharit Jatihya Kombadyanche Pawasali Vyavasthapan
28) Parsat Sudharit Kombadyanche Vyavasthapan
29) Kokanatil Dugdhotpadan yak Adhawa
30) Sheleesathi Adharsha Gotha
31) Navjat Vasrachi Neega
32) Shetkamasathi Bailachi tasech Paidasisathi Vluchi navad
33) Kokanatil Shelipalan
34) Janavranpasun Adhik Dudha Kasa Milwal
35) Janavranmadhil Vanzpanna Karane Ani Upaya
36) Giriraj kobadi Palan
37) Sankrit kalwadich Vavsthapan
38) Konkan Kanyal ya sudharit shelichi vaishithe
39) Maharashtra dinanimit Maharashtratil pashudhan sadhasteeti aani bhavitvya

Dr. A. J. Mayekar

1) Vanikarnche Mahatv aani Lagavadwad Paddhati
2) Janavranche roag niyantranasathi aushadhi vanastati
3) Parsatil kombdi palan
4) Deshi kombdyancha sudharit jati aani tanche vavstapan

Dr. V.S. Dandekar

1) Aandayanchi hatalni, pratvari aani vikri vayvstha
2) Loni aani tup banvinachi sudharit padhati
3) Doodh dirghakal tikvinyacha vividha padhati
4) Tup tvar karnayacha vividha padhati
5) Murghas – janavranchi suyoga khadya
6) Dairy vavsayatil aadhunik tantra
7) Bhartiya dhudhyjanya padharthatil gunvta tikvine
8) dhudhyajanya padharthatil falancha vapar
9) dhudhyaprakriya aavshakta aakan padhati

TV Talks
Prof. S.V. Joshi

१) शेळीपालन - एक पूरक व्यवसाय

Prof. D.J. Bhagat

1) Housing and Feeding Management of Goat- Shri Sai Self help group, Dhokamale, Ta.& Dist. Ratnagiri.
2) A successful goat farming in Konkan- Shri. Sathavilkar goat farm at Hativ, Taluka Sangameshwar, Dist. Ratnagiri.
3) Back yard poultry farming- Shri. Mahesh R. Matkar, at, post Golap, Ta.& Dist. Ratnagiri.
4) Pig farming is a successful business- Shri S.V. Ramane, at, post Pomendi, Ta. & Dist. Ratnagiri.
5) Parsatil Kombadipalan (Live phone in programme on Doordarshan Kendra, Mumbai)

e) Farmer Scientist Forum

f) Other Extension Activities

g) Publications

10) DETAILS OF OTHER ACTIVITIES (for e.g. seed production, production of other commodities etc.)

11) CONTACT INFORMATION

Name of the Head
Name of the Department
Postal Address
Landline Number
Mobile Number
Fax
Email

12) NEWS AND EVENTS