

Department of Farm Structural Engineering College of Agricultural Engineering and Technology, Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli, Dist: Ratnagiri



Faculty Strength:

Academic:



Name Qualification Designation Experience Area of Specialization Email ID	Dr. S.K. Jain Ph.D. Professor and Head 32 years 7 months Agricultural Structures and animal comfort skj11@rediffmail.com jsandeep1967@gmail.com	Name Qualification Designation Experience Area of Specialization Email ID
Name Qualification Designation Experience Area of Specialization	Dr. H.T. Jadhav Ph.D. Associate Professor 19 years 10 months Agricultural Structures and Environment management	Name Qualification Designation Experience Area of Specialization
Email ID	htjadhav@gmail.com	Email ID

Technical: Lab Assistant - 01.....Vacant

All India Coordinated Research Project – Plasticulture Engineering in Agriculture Structures and Environment Management

 Assistan Research Technica 		- 03	(Vacant - 02) (Filled - 02) (Vacant - 0)	; Vacant - 01)
Name Qualification	Er. (Ms.) Ankita Pawar M. Tech. (Agril. Engg.)		Name Qualificatio n	Er. R.R. Mhade M. tech. (Agril. Engg.)
Designation Experience Area of Specialization	Research Associate 6 months Animal comfort		Designation Experience Area of Specializati on	Research Associate 6 months Poly houses
Email ID	ankitapawar6977@gmail.co	om	Email ID	rushikeshmhade@gmail.com

Supporting: Lab boy - 01.....vacant

Education:

Degree Offered	Intake Capacity	Year of Establishment
B.Tech (Agricultural Engineering)	64	1999-2000
M.Tech (Agricultural Structures and	04	2018-2019
Environment Management)		
Ph.D. (Agricultural Structures and	02	(Starting from Academic Year
Environment Management)		2023-2024)

Courses Offered:

B.Tech	1 st Term	2 nd Term
(Agricultural		
Engineering		
	 FS-111 (Engineering Mechanics) FS-355 (Agricultural Structures, Storage Engineering and Environmental Control) 	 FS-122 (Strength of Material) FS-244 (Building Construction and Cost Estimation) FS-ELE-481 (Green House Structures for Protected Cultivation) FS-ELE-482 (Rural Transport, Water Supply and Sanitation) GAE-486 (Project Planning and Report Writing)
M.Tech (Agricultural Structures and Environment	 FS-501* Advance Structural Engineering FS-503* Agricultural Structures And Animal Housing 	 FS-502* Environmental And Pollution Control In Agriculture FS-504* Design of Structures
Environment Management)	 And Animal Housing FS-511Farm Structures and Environmental Control RES-507 Agricultural Waste And By-Products Utilization MATH-502 STAT-511 Methods Of Numerical Analysis PGS-501 Library And Information Services PGS-504 Basic Concepts In Laboratory Techniques FS-507 Environmental Management FS-592* Special Problem PGS-505 Agricultural Research Ethics Rural Development 	 FS-504* Design of Structures for Agricultural Production FS-510 Design of Storage structures FS-513 Greenhouse Technology PFE-502 Engineering Properties of Biological Utilization PGS-502 Technical Writing and Communication Skills PGS-503 Intellectual Property and its Management in Agriculture FS-591 Masters Seminar FS-599 Master Research
Ph.D.	 PGS-506 Disaster Management PGS-595 Industry/Institute Training ESE 601* (Hi Tash Agricultural 	• ESE 604 (Advence
111.D.	• FSE-601* (Hi-Tech Agricultural	• FSE-604 (Advance

(Agricultural	structures for Agricultural	Environmental Science and
Structures and	Production)	Engineering)
Environment	• FSE-602* (Design of Structures	• FSE-605 (Design of Advance
Management)	for Animal Housing)	Green House Structures)
	• FSE-603 (Advance Storage	• FSE-606 (Aquaculture
	Structural Engineering)	Processing Technology and
		Structures Design)

*Compulsory Courses

Training Imparted:

SN	Training Imparted to	Title	Year
1	Farmers, Buruds, unemployed youth and self-help	Bamboo Furniture	2009
	group		
2	Taluka Krishi Adhikari, Regional Research	Bamboo Handicrafts	2010
	Station, Karjat and Roha		
3	Local farmers of Dapoli	Bamboo Handicrafts and	2010
		Furniture	
4	SHG Chiplun,	Bamboo Furniture	2011
	Dist-Ratnagiri		
5	Sukh Sampatti Samvardharn Sanstha, Nalasopara,	Bamboo Handicraft and	2011
	Mumbai	Furniture	
6	Rashtra Seva Samiti, Vasai, Thane (Government	Bamboo Handicraft	2012
	approved registered social Institute)		

PG & Ph.D. Student Research Projects:

M.T	ech (Agricultural Stru	uctures and Environment Mana	gement)	
SN	Name of	Title of Thesis	Year of	Name of the
	Candidate		submission	Guide/Co-Guide
1.	Mr. Pawar Ranjit	Development of Laterite	2021	Dr. S.K. Jain
	Rajkumar	Quarry Scrap Stabilized		
		Blocks for Rural Housing in		
		Konkan		
2.	Mr. Shirke Prasad	Design And Development Of	2021	Dr. S. K. Jain
	Santosh	Mechanism For Operation Of		
		Curtains In Greenhouse		
3.	Mr. Gavali Jaypal	Development of Bamboo	2021	Dr. S.K. Jain
	Suklal	Reinforced Concrete		
		Structural Member for Rural		
		Housing		
4.	Miss. Dhage Puja	Studies on Thermal Modelling	2022	Dr. H.T. Jadhav
	Vishwas	of Naturally Ventilated Broiler		
		House		
5.	Miss. Chavan	Comparison of Silo Structure	2023	Dr. S.K.Jain
	Maheshwari	Types on Quality of Silage		
	Mansing	made from Crop Residue		
6.	Miss. Pawar Ankita	Study of Heat Stress	2023	Dr. S.K. Jain

	Balasaheb	Reduction Techniques for		
	Dulubulleo	Enhancing Animal Comfort in		
		e		
		Dairy Barn	2022	D GW L
7.	Mr. Gurav Amit	Design and Development of	2023	Dr. S.K. Jain
	Anandrav	Open Roof Mechanism for		
		Greenhouse		
8.	Mr. Mhade	Development and Evaluation	2023	Dr. H. T. Jadhav
	Rushikesh Ramesh	of Low Rise Bamboo		
		Polyhouse for Vegetable		
		Production		
9.	Mr. Dewade Omkar	Design and Development of	2023	Dr. S.K. Jain
9.		• •	2025	DI. S.K. Jain
	Mangesh	Aeroponics for Greens		
		Suitable in Urban Farming		
10.	Miss. Mali Aarati	Development of Control	2023	Dr. H. T. Jadhav
	Sudhakar	System for Automatic Fogging		
		in Naturally Ventilated		
		Greenhouse		
11.	Miss. Patole	Development of Control	2023	Dr. H. T. Jadhav
	Pushpmala Shivaji	System for Automatic Fogging		
		System in Naturally Ventilated		
		Poultry House		

2. Training (PG Students)

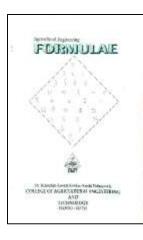
Year	Student Name	Title of Training	
2020	Mr. Pawar	Programming in	
	Ranjit	Python	
	Rajkumar	Programming	
		Language	
		Internshala	I TANK I TANK TANK TANK TANK TANK
		Trainings	TAXABLE INCOME.
2020	Mr. Shirke	Programming in	CONSTRUCTION OF STREET, STREET
	Prasad Santosh	Python	AND ADDRESS AND ADDRESS ADDRES
		Programming	CARL CONTON ANTIDATE OF ANY ANTIDATE REPORTED AN A TROPAGADY
		Language	I DESCRIPTION OF A DESCRIPTION OF A
		Internshala	
		Trainings	A COMPANY STATISTICS AND A COMPANY AND A
2020	Mr. Gavali	Programming in	A second designed and the
	Jaypal Suklal	Python	
		Programming	
		Language	
		Internshala	
		Trainings	
2021	Ms. Pawar	Introduction to	VISIT TO ASAA WAREHOUSE
	Ankita	Post Harvest	
	Balasaheb	Engineering and	ASGROUM
		Technology	A S GROUP OF COMPANIES
2021	Ms. Chavan	Introduction to	ANIES THE ANIES
	Maheshwari	Post Harvest	
	Mansing	Engineering and	
		Technology	
2021	Mr. Mhade	AUTOCAD	

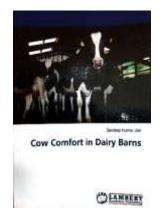
	Rushikesh	Internshala
	Ramesh	Trainings
2021	Mr. Gurav	AUTOCAD
	Amit Anandrav	Internshala
		Trainings

3. Extension Publications (No. & Front Page)

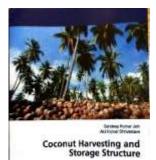
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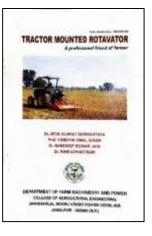












Leaflets = NIL

Training manuals = NIL

Gallery:

Photos with caption of Technologies developed by department



The battery operated areca nut harvester controlled from ground is recommended for harvesting of the areca nut having height of 6 m to 9 m.

Blocks prepared from laterite stone scrap (85% w/w), cement (12% w/w) and paddy husk ash (3% w/w)

Rubber Mat Flooring of size 1524 mm (L), 1060 mm (W), and 15 mm (T) for increasing milk production and comfort of cows in dairy barn



DBSKKV developed bamboo treatment Unit is recommended for chemical treatment of bamboo.



DBSKKV Dapoli developed bamboo mat board using Mes (Dendrocalamus stocksii) variety of bamboo is recommended.



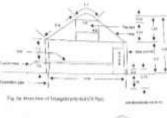
BAMBOO KUTIR Income Booster for Farmer by AGRO TOURISM

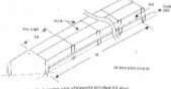












Dr.B.S.K.K.V. design and developed bamboo greenhouse of 24 m length and 8 m width is recommended for cultivation of vegetables in konkan region.

DBSKKV developed bamboo house structure made from kalak and mes varieties of bamboo is recommended for Konkan region.

Dr. BSKKV developed bamboo houses of an area 37 sq.m, 28 sq.m and 18.5 sq.m are recommended for agro tourism in Konkan region.

Dr. BSKKV Dapoli developed GI pipe nursery polyshed having approximate area 96 m2 (length 18 m, width 5.34 m and height 3.2 m) is recommended for efficient production of mango and cashew rootstock seedlings and grafts in the Konkan region. Dr. BSKKV Dapoli developed low cost treated bamboo (variety mes) nursery polyshed having area 81 m² (length 18 m, width 4.5 m and height 3.3 m) is recommended for efficient production of mango and cashew seedlings and grafts in the Konkan region. The "DBSKKV Automatic Fogging System" (DAFS)" developed by Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth is recommended to use in a Naturally Ventilated Polyhouse to control air temperature and relative humidity (VPD) at optimum levels for the crops. The 'DBSKKV Solar Radiation Shield (DSRS-V1)' developed by DBSKKV Dapoli is

recommended for use with the respective sensors for accurate measurement of temperature and relative humidity under varied agricultural and other industrial applications. The 'DBSKKV High Rise Bamboo Polyhouse (DHRBP)' developed by DBSKKV Dapoli (gutter height = 4.57 m) is recommended for better inside environmental control & to use the fullest crop potential. The "DBSKKV Bamboo Polyhouse Design Calculator (DBPDC)" developed by DBSKKV Dapoli is recommended for the design of structural members of naturally ventilated bamboo polyhouses of different sizes. The 'DBSKKV Bamboo Polyhouse Innovative Joints (DBPIJ)' developed by DBSKKV Dapoli are recommended for joining of bamboo structural members during construction of bamboo polyhouses.