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Department of Agricultural Engineering
Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli

Name of the Department/Section:
Department of Agricultural Engineering, College of Agriculture, Dr BSKKV, Dapoli

About Department:

It is a constituent department of Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli established in year 1974 for importing higher education, research and extension of agricultural engineering technologies. The department of Agricultural Engineering offers Undergraduate course related to discipline of agricultural engineering to the Under graduate course to B.Sc (Hon.) Agriculture, B.Sc (Hon.) Horticulture and B.Sc. (Hon.) Forestry as per 5th Dean Syllabus from 2017.

Academic Programme
1st Term (Odd Semester)

SN	Title	Course No.	Credit	Sem	Degree B.Sc (Hon)
1	Elementary Mathematic	MATH-111	2(1+1)	I	Agriculture
2	Elementary Mathematic	MATH-111	2(1+1)	I	Horticulture
3	Elementary Mathematic (Forestry)	MATH-111	2(1+1)	I	Forestry
4	Information and Communication Technology	ENGG 111	2(1+1)	I	Forestry
5	Farm Power & Machinery	ENGG-232	2(1+1)	III	Agriculture
6	Agriculture Informatics	COMP-231	2(1+1)	III	Agriculture
7	Agriculture Informatics (Forestry)	COMP-231	2(1+1)	III	Forestry

2nd Term (Even Semester)

SN	Title	Course No.	Credit	Sem	Degree
1	Soil & Water Conservation Engineering	ENGG-121	2(1+1)	II	Agriculture
2	Water Management in Horticultural	H/ENGG-121	2(1+1)	II	Horticulture
3	Renewable Energy & Green Technology	ENGG-243	2(1+1)	IV	Agriculture
4	Forest Hydrology & Watershed Mgt.	F-ENGG-242	2(1+1)	IV	Forestry
5	Protected cultivation & Secondary Agril.	ENGG-364	2(1+1)	VI	Agriculture

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6	Forest Survey & Engineering	F-ENGG-363	2(1+1)	VI	Forestry
7	Natural Resource Management	ELM-ENGG-485	10 (0+10)	VIII	Agriculture

Course Curricula and syllabi of each subject: **Enclose as a separate file as aUG syllabus website.**

Academic Infrastructure

Laboratories: There are six laboratories in this department to conduct the practical of UG students from B.Sc.(Hon.) Agriculture, Horticulture and Forestry. The list of laboratories is as below.

Sr. No.	Name of the Laboratory
1.	Farm Machinery and Power Laboratory
2.	Post-Harvest Technology Laboratory
3.	Soil and Water Conservation Laboratory
4.	Irrigation and Drainage Laboratory
5.	Renewable Energy and Green Technology Laboratory
6.	Computer laboratory

Farm Power and Machinery Laboratory

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Postharvest Technology Laboratory

Soil and Water Conservation Engineering Laboratory

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Irrigation and Drainage Engineering Laboratory

Renewable Energy and Green Technology

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Computer Lab of Deptt. of Agril. Engineering

Faculty Strength

The Department has following strength for the teaching/research and extension activities

Present Staff Position

Sr. No.	Name of the Post	Sanctioned Posts	Present Position	Vacancies
1	Head	1	Dr. S.V. Pathak (Additional Charge)	1
2	Associate Professor	2	1	1
3	Assistant Professor	4	1+ 2#	1
4	Agril. Assistant	1	1	0
5	Lab boy	1	0	1
6	Clerk	1	0	1
7	Peon	2	0	2
8	Mazdoor	2	2	0

Lady staff member

Present Teaching Staff members

SN	Name of Faculty	Designation	Qualification & Specialization	Contact Information
1	S. V. Pathak	Head	Ph.D. (Farm Machinery and Power Engineering)	sachinpathak76@gmail.com 7728096850 7843047153
2	A.A. Deogirikar	Assistant Professor	Ph.D. (Farm Machinery and Power Engineering)	amitdeogirikar@rediffmail.com, amitdeogirikar@gmail.com 9405522971
3	B. S.	Assistant	Ph.D. (Agricultural	bhawanashirsat@yahoo.co.in

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	Shirsat	Professor	Process Engineering)	9730245977
4	Er. S. S. Nagarkar	Assistant Professor	M. Tech. Soil and Water Conservation Engineering	palkarshweta23@gmail.com 9422632278 8010473429

Infrastructure/ Instructional Farm:

The department is having one instructional farm (75 m × 60 m) with Kokum plantation (No. of plant 121). It is used for students practical work.

News/Events

Research Activities and Recommendations

Add departmental recommendations here : Nil

Extension Activities for the Year 2022-2023

Conducted demonstration on Rice Mechanization - 5

Demonstration on Engineering Tools used in Farming - 4

Demonstration of Fam pond - 4

Contact Information

Head, Department of Agricultural Engineering, College of Agriculture, Dapoli, Distt Ratnagiri. PIN 415712

Email: ghodagrieng@dbskkv.ac.in

Phone: 02358 – 280213

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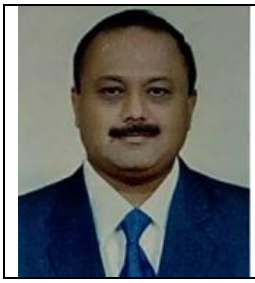	Name	:	Dr. Sachin Vishnudas Pathak
	Date of Birth	:	12-07-1976
	Present Post held	:	Professor (CAS)
	Date of Joining on Present post	:	08.08.2016

Name of College/Department	:	Department of Farm Machinery and Power , CAET
Residential Address	:	F.No.7/2, "Snehlata" Apartment, Kokamba Ali, Dapoli
Mobile number and email address	:	7728096850, sachinpathak76@gmail.com
Academic qualification	:	Ph.D.(Farm Machinery and Power Engineering)

Degree	Year of Passing	University	Grade/Class	Major Subjects
B. Tech.	1997	MPKV, Rahuri	Second	Agril. Engg.
M. Tech	2001	JNKVV, Jabalpur	First	Farm Machinery and Power
Ph.D.	2016	MPUAT, Udaipur	First	Farm Machinery and Power

Professional Experience of Teaching/ Research/ Extension			:
Designation	From	To	Total (Years)
Research Associate	01-01-2002	25-08-2004	2 Y, 8-M
Assistant Professor	27-08-2004	04-04-2010	5-Y, 7-M
Associate Professor	05-04-2010	07-08-2016	6-Y, 4-M
Professor (CAS)	08-08-2016	Till date	7-Y, 1-M
		Total Experience	**21 Years 8-M**

TECHNOLOGIES DEVELOPED / ASSISTED IN DEVELOPMENT	
Recommendation/Patent	Year
The developed 35 HP tractor operated shredder is recommended for shredding of pruned branches /cutting of horticultural and spices crops up to 2.0 cm diameter and harvested grasses for farmers	2007
DBSKKV developed hand operated arecanut dehusker is recommended fro dehusking arecanut	2010
Dr. BSKKV developed bullock drawn zero till drill for bean seeds is recommended for Konkan region for sowing beans after harvest of kharif rice.	2010
DBSKKV developed hand operated arecanut scrarifier is recommended for freshly harvested arecanut scrarifying for Konkan region of Maharashtra.	2011

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Dr. BSKKV, Dapoli developed hand operated rotary arecanut dehusker is recommended for arecanut dehusking. **(AICRP-ESA)**	2012
Dr. BSKKV, Dapoli developed manually operated rotary arecanut scrarifier is recommended for arecanut scrarifier. **(AICRP-ESA)**	2012
Dr. BSKKV improved vaibhav sickle is recommended for harvesting of paddy.	2013
DBSKKV developed pedal operated arecanut dehusker is recommended for dehusking of dried arecanut.	2014
The self propelled reaper developed by Dr. B.S.K.K.V., Dapoli is recommended for harvesting of paddy.	2014
Pure Latex (non slip) glove is recommended for cashew nut deshelling and scooping operation. **(AICRP-ESA)**	2014
It is recommended to use non slip latex gloves during cashewnut deshelling for protection of hands from Cashew Nut shell Liquid (CNSL)	2015
Ergonomical study and refinement of work practices and health hazards of men and women in cashew industries. **(NATIONAL)**	2016
Development and Performance Evaluation of Power Operated Coconut Dehusker	2017
Design and Development of Cono Weeder	2018
Design Development of Bamboo House	2018

Member of State/National level committee	**:**	-
Member of State/National level Professional Society	**:**	04
Research Paper Published	**:**	28

RESEARCH PUBLICATIONS

International Research Journal : 23

National Research Journal : 8

Presented in Symposium or seminars : 12

Book published : 02

Booklet published : Nil

Extension/Popular article published : 15

Radio Talk (AIR, Ratnagiri) : 08

TV Shows (on Agril. Technology) : 05

Research articles reviewed : 02

Patent published : Nil

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A} ASSOCIATION WITH PROFESSIONAL BODIES: 04

a. Life Member of Institution of Engineers, New Delhi (AM 155937-3)

b. Life Member of ISASaT,DBSKKV, Dapoli (R.No 63 dtd: 15/11/2016)

c. Life Member of Indian Socity of Costal Agricultural Research **LM/440/16**

d. Life Member, ISAE, New Delhi (LM-9983)

B} Books published: 02

1. Bhat shetitil Yantrikikaran
2. BAMBOO KUTIR Income Booster for Farmer by AGRO TOURISM

C} Booklet

1. Nil

D} Patent published : NIL

E} Awards received

1. Acquired 1st winner for guided student innovative project at DIPEX-2012
2. Acquired 1st winner for guided student innovative project at DIPEX-2019
3. Best Performance Award in Agriculture and Social Services-2022
4. Best Researcher Award against the Hand Operated Rotary Type Arecanut Dehusker -2022
5. Best Research Paper Award for Determination of Optimum Seed Deatachung Force for Development of prototype threshing unit for Cumin Seed by ISASTRE, Raichur, Karnataka -2022

F} Externally funded projects:

Co-Investigator:

1. Coconut Processing Unit financed by CDB, Kochin
2. Coir Processing Unit financed by Coir Board, Kochine
3. Farm machinery Testing and Training centre, RKVY Project Financed by Central Ministry of Agriculture, New Delhi
4. Bamboo Processing Centre, College of Forestry, RKVY project

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Name of the Faculty	Amit Ashokrao Deogirikar
Post Held	Assistant Professor(FMP)
DateofBirth	22nd August1977
Qualification	M.E.(FMP&E)
Area of Specialization	Farm Machinery and Power Engineering
Experience (Years)	22Years
Research Projects guided PhD M.Sc./M.Tech B.Tech./ BSc.	 00 02 00 00
Present area of Research	Farm Machinery, Magnetic Seed treatment
Contactdetails Landline No. Mobile Fax Email	 02358280213 9405522971 amitdeogirikar@rediffmail.com amitdeogirikar@gmail.com

EDUCATIONAL BACKGROUND		
Year	**Qualification**	**CGPA or percentage**
2001	**M.E. (Agril. Engg)** (Farm Machinery & Power Engineering) College of Technology and Engineering, Udaipur MaharanaPratap University of Agriculture &Technology, Udaipur, (Rajasthan) INDIA	**3.31/4.00 CGPA**
1999	**ICAR Junior Research Fellow Exam'**1999 Conducted by Indian Council of Agriculture Research, New Delhi, INDIA	**27th rank all over India**
1999	**B. Tech. (Agril. Engg)** College of Agricultural Engineering and Technology, Akola Dr. PanjabraoDeshmukhKrishiVidyapeeth, Akola (Maharashtra), INDIA	**7.25/10.00 CGPA**
1995	**Higher Secondary Certificate** (H. S. C.) Shri. Shivaji College, Akola Amravati Divisional Board, Amravati (Maharashtra) INDIA	**68.00 %**

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1993	**Secondary School Certificate** (S. S. C.) New English High School, Akola Amravati Divisional Board, Amravati (Maharashtra) INDIA	**63.71 %**

WORK EXPERIENCE				
Sr. No.	Name and Address of Institute			Name of the Project
1	Dept of Agril Chemistry and Soil Science, DrPDKV, Akola	Junior Research Assistant	Sept 22nd 2005 to April 23rd 2008 *(02-07-01)*	Regular Post
2	Dept of Agricultural Engineering, DrBSKKV, Dapoli	Assistant Professor	April 28th 2008 (Continued till date)	Regular Post

RESEARCH PUBLICATIONS (List enclosed separately)	
International Research Journal	18
National Research Journal	14
Presented in Symposium or seminars	18
Book published	04
Booklet published	02
Extension/Popular article published	33
Radio Talk (AIR, Ratnagiri)	03
Research articles reviewed	01
Patent granted	01
Patent filed	01

TECHNOLOGIES DEVELOPED / ASSISTED IN DEVELOPMENT

Small capacity sugarcane juice concentrator (Falling film type)
Cotton Shredder, DPDKV, Akola
Cotton Under Root Cutter, DPDKV, Akola
Multi fruit Harvester, DBSKKV, Dapoli
Domestic cashew nut roaster (Patent filed).

ASSOCIATION WITH PROFESSIONAL BODIES

Life Member of Indian Society of Agricultural Engineering, New Delhi, INDIA (LM9990)
Life Member of PKV Research Journal of DrPanjabraoDeshmukhKrishiVidyapeeth, Akola, (Maharashtra), INDIA.
Member of Bioved Research Society, Allahabad, INDIA.
Member of Agricultural Research Communication Centre, Karnal, (Hrayana), INDIA.
Member of Editorial Board, International Journal of Agricultural Engineering, Muzaffarnagar (U.P) INDIA.
Acted as Jury Member for the evaluation of the Diploma projects in the Dipex 2018 Dipex 2018 – a State Level engineering project competition conducted by ABVP and Srijan Trust held at Walchand College of Engineering, Sangli during 10-13 March 2018.

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Enclosed list of publication/ research projects etc.

International

1. Kamble A. K., R. H. Rahate, **A. A. Deogirikar**, K. P. Arulkar and L. P. Diwane (2003). Development and evaluation of multi power operated cotton planter. *Bioved* Vol. 14(1,2): 29 – 32.
2. Katkhede S. S., P. S. Parshurame, **A. A. Deogirikar**, C. N. Gangde (2003). Feasibility testing of plot thresher for green gram.*Bioved* Vol. 14(1,2):75–78.
3. Rahate R. H., Kamble; A. K., **A. A. Deogirikar**, K. P. Arulkar and L. P. Diwane (2003). Effect of blade inclined angles on performance of power weeder.*Bioved* Vol. 14(1, 2): 87 – 90.
4. **Deogirikar Amit,** Y. C. Bhatt, N. N. Narkhede and K. P. Arulkar (2004) Studies on cone type rotary nozzle for air assisted spraying. *Bioved* Vol. 15 (1, 2): 1 – 4.
5. Patil V. D., N. N. Narkhede, **A. A. Deogirikar** and K. P. Arulkar (2004) Modifications and testing of rotavator for cotton shredding. *Bioved* Vol. 15 (1, 2): 9 – 12.
6. Edlabadkar M. V.; **A. A. Deogirikar**, P. B. Kale and K. P. Arulkar (2004) Evaluation of Jojoba seed germination inside and outside the polyhouse. *Bioved* Vol. 15 (1, 2): 57 – 60.
7. Arulkar K. P.; S. S. Hiwase, **A. A. Deogirikar**, and M. M. Deshmukh (2004) Water requirement estimation from climatological data by probability analysis for sugarcane crop in Nagpur district. *Bioved* Vol. 15 (1, 2): 75 – 78.
8. Arulkar K. P.; S. S. Hiwase, **A. A. Deogirikar**, and M. M. Deshmukh (2004) Irrigation planning for Nagpur division of Maharashtra state. *Bioved* Vol. 15 (1, 2): 79 – 82.
9. Patil R. D.; A. A. Deogirikar, D. M. Mahalle, D. S. Kharche and M. M. Deshpande (2004) Milk pasteurization with pulse electric field. Bioved Vol. 15 (1, 2): 83 – 88.
10. UtgikarSwarupa, KavitaArulkar, **Amit Deogirikar** (2006) Growth and yield of isabgol (PlantagoovataForsk.) as influenced by nitrogen and phosphorus levels. New Agriculturist Vol 17 (1/2): 239-240
11. **Deogirikar A. A.**, S. B. Gite and Y. C. Bhatt (2010) Performance evaluation of rotary nozzles for air assisted sprayer for cotton crop. International Journal of Agricultural Engineering Vol 3(2) 236-242.
12. Gite S. B., **A. A. Deogirikar** (2010) Design and testing of suitable boom for power tiller operated sprayer for blower type pattern of grape vineyard. International Journal of Agricultural Engineering Vol 3(2) 295-298.
13. Powar R. V., V. V. Aware, **A. A. Deogirikar**, S. V. Aware and P. U. Shahare (2017) Comparative evaluation of cashew nut shelling machines. International Journal of Agricultural Engineering Vol 10(2): 570-576.
14. **Deogirikar Amit A.,** V. V. Aware, R. V. Powar (2017) Time and motion study of a cashew nut processing factory in Dapoli. International Journal of Agricultural Engineering Vol 10(2): 581-589.

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15. Powar R. V., P. U. Shahare, V. V. Aware and **A. A. Deogirikar** (2017) Energy audit of paddy cultivation practices in Konkan region of Maharashtra. International Journal of Agricultural Engineering Vol 10(2): 647-654.
16. ShahareP.U., K. G. Dhande, **A. A. Deogirikar** and K. P. Kolhe (2018) Efforts towards development of harvesting equipments for mango in Konkan. International Journal of Tropical Agriculture Vol 36 (3): 679-685.
17. YadavY.M., S.G. Mahadik, V.V. Dalvi, **A. A. Deogirikar**, M. M. Burondkar and P.B. Vanave (2018) Effect of Magnetic Treatment on Enzyme Activation of Paddy (Oryza sativa L.) International Journal of Current Microbiology and Applied Sciences. Vol 7 (10): 3573 – 3581.
18. ShindeShaileshMahadev, VaibhavLaxmanKachare and Amit A. Deogirikar (2019) Time and Motion Study of Mango Pulp Industry (Shree Samarth Foods, Palgad, Tal Dapoli, Dist Ratnagiri) – A Case Study. International Journal of Agricultural Engineering Vol 12(1) : 170 – 175.

National

1. Malwe; S. S., **A. A. Deogirikar** and N. N. Narkhede (2003) Development of Tractor Mounted Cotton Under Root Cutter. PKV Research Journal. Vol 27 (1) 26-29.
2. **Deogirikar A. A.**, N. N. Narkhede and K. P. Arulkar (2003) Performance of different interculture equipment in cotton crop. PKV Research Journal Vol 27 (1) 30-33.
3. Golait S. D., **A. A. Deogirikar**, P. B. Kale, N. L. Raut, A. P. Deshmukh (2003) Energy and Cost Requirement for Construction of Greenhouse. PKV Research Journal. Vol 27 (1) 34-36
4. **Deogirikar** A. A., P. B. Kale, S. G. Wankhade, V. K. Mahorkar (2003) Effect of pre sowing magnetic treatment on the biometric characteristics and yield of Isabgol crop inside greenhouse. PKV Research Journal. Vol 27 (1) 37-42
5. Gadling P. P., S. H. Bhange, S. V. Gupta and **A. A. Deogirikar** (2003) Status of greenhouse technology in Amravati district. PKV Research Journal Vol 27 (1) 71-72.
6. **Deogirikar** A. A., P. B. Kale, S. G. Wankhade and B. B. Landge (2003) Germination of SafedMusali (Chlorophytumborvillianum) Tubers Inside and Outside Greenhouse. PKV Research Journal Vol 27 (2) 178-183.
7. Landge B. B., **A. A. Deogirikar** and P. B. Kale (2004) Status of greenhouse technology in Akola and Washim District (A Case Study). PKV Research Journal Vol 28 (1) 103-104
8. Landge B. B., A. K. Verma, D. Chaudhari, P. B. Kale and **A. A. Deogirikar** (2004) Studies on design refinements on CIAE two-row tractor drawn vegetable transplanter. PKV Research Journal Vol 28 (2) 200-206.
9. Mange P. O., S. B. Bakal, L. P. Diwane and **A. A. Deogirikar** (2005) Comparison between tractor and multipairedbullock drawn M. B. Plough. PKV Research Journal Vol 29 (1) 125.
10. Arulkar K. P., R. C. Bhuyar, **A. A. Deogirikar**, S. C. Sarode and P. S. Joshi (2005) Wetting pattern and salt distribution in micro sprinkler irrigation. Agric. Sci. Digest 24(4): 296-298
11. **Deogirikar A. A.**, P. B. Kale and S. M. Patil (2005) Effect of greenhouse and shade net on Isabgol crop. Journal of AgrometeorologyVol 7(2):279-283

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12. **Deogirikar A. A.** and P. B. Kale (2006) Performance evaluation of safedmusali crop inside greenhouse. PKV Research Journal Vol 30 (1) 96-100.
13. Kale P. B. , **A. A. Deogirikar** and S. M. Patil (2006) Performance evaluation of ventilation and fan-pad system in semi-controlled polyhouse during monsoon season. Journal of AgrometeorologyVol 8(2):226-229
14. Nalge D. N., **A. A. Deogirikar,** N. M. Konde and P. R. Damre (2007) Performance of cotton under drip irrigation on vertisols. Jou. of Soils and Crops. Vol 17 (2): 299-303.

List of students projects

1. Student project "Multi fruit collector cum dryer" presented in Dipex 2012 – a State Level engineering project competition conducted by ABVP and Srijan Trust held at Mumbai during 10-14 March 2012. This project won the Second prize. (Project Guide: A. A. Deogirikar)
2. Student project "Multi fruit collector cum dryer" presented in the Spring 2013 – A National Level Technical Festival cum competition held at GIT, Lavel during 6-7 April 2013. **This project won the first prize**. **(Project Guide: A. A. Deogirikar)**
3. Student project "A boon for diabetes – salted cashew (Salted Cashew making machine)" presented in Dipex 2014 – a State Level engineering project competition conducted by ABVP and Srijan Trust held at Karmayogi Engineering and Polytechnic College, Pandharpur during 4 – 7 March 2014. **This project won the first prize**. **(Project Guide: A. A. Deogirikar)**
4. Student project "Salted cashew nut making machine" presented in the Spring 2014 – A National Level competition held at GITLavel during 22-23 March 2014. **This project won the first prize**. **(Project Guide: A. A. Deogirikar)**
5. Students project "Cycle operated portray filling machine" presented in Dipex 2015 – a State Level engineering project competition conducted by ABVP and Srijan Trust held at Nashik during 7-11 March 2015. **This project won the First prize**. **(Project Guide: A. A. Deogirikar)**
6. Student project "Roadside marker cum radium fixer" for presentation in Dipex 2015 – a State Level engineering project competition conducted by ABVP and Srijan Trust held at Nasik during 7-11 March 2015. **This project won the Second prize**. **(Project Guide: A. A. Deogirikar)**
7. Students Experiential Learning Module on **"Natural Resource** Management" has been implemented in the Department from 2021. **(Module In charge: A. A. Deogirikar)**

List of awards

1. Received the "**Best Teacher Award**" given by the Balidharm Charitable trust, Nashik for the Year 2013. **(Recipient A. A. Deogirikar)**
2. Participated and presented the research work (Automatic pet feed box) in the theme area Agriculture and Animal Husbandry under the category of Teachers representing the College of Agriculture, Dapoli in the Inter-Collegiate Research Convention 'Avishkar 2018' organized by

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KaarmaveerRajaramMarathe College of Agriculture, Phondaghat during December 29 to 30, 2018. Won the first prize. (Recipient A. A. Deogirikar)

3. Participated and presented the research work (Automatic pet feed box) in the theme area Agriculture and Animal Husbandry under the category of Teachers representing the Dr BSKKV, Dapoli in the Inter-University research Convention 'Avishkar 2018' organized by Gondwana University, Gadchiroli during January 15 to 18, 2019. (Recipient A. A. Deogirikar).
4. Participated and presented the research work (Use of commercial domestic oven toaster griller (OTG) for cashew nut kernel and Almonds roasting with the attachment of perforated drum) in the theme area Agriculture and Animal Husbandry under the Teachers category representing the DrBSKKV, Dapoli in the Inter-University research Convention 'Avishkar 2019' organized by Mumbai University, Mumbai during January 28 to 31, 2020. Won the Second prize. (Recipient A. A. Deogirikar).

Books published

1. **Deogirikar Amit Ashokrao**, Kishor Ganpat Dhande, Atul Ganesh Mohod (2018) A Text Book on Farm Machinery and Power. Pub. Shri Rajlaxmi Prakashan, Aurangabad ISBN 9789384710873.
2. **Deogirikar Amit Ashokra** and Sanchali Kshirsagar (2019) A Text Bok on Agri-Informatics. Pub. Shri Rajlaxmi Prakashan, Aurangabad ISBN 9789384710897.
3. **Deogirkar Amit Ashokrao** (2019) A Text Book on Protected Cultivation and Secondary Agriculture. Pub. Shri Rajlaxmi Prakashan, Aurangabad ISBN 9789384710958.
4. **Deogirikar Amit Ashokrao** and Atul Ganesh Mohod (2019) A Text Book on Renewable Energy and Green Technology. Pub. Shri Rajlaxmi Prakashan, Aurangabad ISBN 9789384710965.
5. **Deogirikar Amit Ashokrao** and Vaishali Ramesh Rao Wankhade (2021) Question and Answer as per Exam Format on Protected Cultivation and Secondary Agriculture. Brillion Publishing, New Delhi ISBN ISBN: 978-93-90757-90-9, e-ISBN: 978-93-90757-98-5.
6. Mohod Atul Ganesh, **Amit Ashokrao Deogirikar** and Prachi Chndrakant Khorgade (2023) Subjective and Objective Question Bank on Renewable Energy and Green Technology. Brillion Publishing, New Delhi ISBN ISBN: 978-93-90757-90-9, e-ISBN: 978-93-93980-92-2.

Patent granted

1. **Deogirikar Amit Ashokrao** and Anagha Amit Deogirikar (2023) Device for roasting cashew nuts and almonds with commercial domestic Oven-Toaster-Griller (OTG).Application No. 201921041121 and Patent No. 453703 date of grant 22/09/2023

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Name of the Faculty	**Shirsat Bhawna Samadhan**
Post Held	**Assistant Professor of APE**
Date of Birth	06th December 1975
Qualification	PhD (APFE)
Area of Specialization	Agricultural Processing and Food Engineering (***OR*** Agricultural Process Engineering)
Experience (Years)	12 years
Research Projects guided	
PhD	00
M.Sc./M.Tech	00
B.Tech.	00
Present area of research	Studies of Chickpea for making Flakes.
Contact details	
Land line No.	02358280213 (O)
Mobile	09730245977
Fax	
Email	bhawnashirsat@rediffmail.com

2, **Post Held** : **Assistant Professor of APE**,
Department of Agricultural Engineering,
College of Agriculture, Dapoli - 415 712
Dist - Ratnagiri (Maharashtra)

3. **Date of Birth** : 06.12.1975

4. **Qualification** : M. Tech. (APFE)

Sr.	Degree	Year	CGPA	Institution/University
1.	M. Tech. in APFE	2003	7.35/10 (73.5 %)	Indira Gandhi KrishiVishvaVidyalaya,
2.	B. Tech. (Agril. Engg.)	2000	6.68/10.00 (6.68 %)	Dr. PanjabraoDeshmukhKrishiVi

Additional Qualification
Nil
Academic Achievements, Rewards.
Nil

5. **Area of Specialization** : Agricultural Processing and Food Engineering (***OR*** Agricultural Process Engineering)

6. **Experience** : 08 years

7. **Research Project Guided** :
Ph.D. : Pursuing
M. Tech. (AgrilEngg) : Nil

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	B. Tech.	:	Nil
8.	**Present Area of Research**	:	Studies of Chickpea for making Flakes.
9.	**Research Publication**	:	
	Articles in journals	:	10
	Conference/Technical Publication	:	01
10.	**Books published**		
	No. of Books	:	Nil
	Chapter in Books	:	Nil
11.	**Contact Details**		
	Phone No.		02358 282415 (O)
	Mobile No.		09730245977
	e mail		bhawnashirsat@rediffmail.com

Scientific/Technical /Popular publications of Er. B. S. Shirsat
International

No.	Author (s)	Title of published paper	Name of Journal	Year, Vol., and Page No.
1.	**Bhawna S. Shirsat**; S. Patel; P. A. Borkar and P. H. Bakane	PHYSICAL PROPERTIES OF FRESH GINGER (*Zingiberofficinale*) RHIZOMES	MULTILOGIC IN SCIENCE	2018; Vol.
2.	**Bhawna S. Shirsat**and GirjaSharan	Small Innovations to Improve Quality and Safety of Vegetables Retailed in Ahmedabad City	B	2015; Vol.
3.	**Bhawna S. Shirsat** and Nayansingh J. Thakor	Studies on Physico-chemical characteristics of Carambola (*Averrhaocarambola* L.) fruit.	Journal of Life Sciences, India	2014; Vol.25(2): 121-125
4.	**B. S. Shirsat** and S. D. Kulkarni	Saturation Moisture Content of Kodo (*PaspalumScrobiculatum* L.) Millet And its Dependence On Temperature And Duration of Soaking.	Bionan	2014; Vol.(2) :1-2
5.	**S. ShirsatBhawna** and P.S.Phirke	Thermal properties of different pulses.	International Journal of Agricultural Engineering, India	2

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6.	GirjaSharan, Kishor P. Rawale and **Bhawna S. Shirsat**	Quality-oriented fresh vegetable supply chain: A pilot in Ahmedabad, India.	Food Chain, Warwickshire, CV239QZ, UK	2011; Vol.1 (1) : 95-105
7.	**BhawnaShirsat**, S.D.Kulkarni, and S.Patel	Hydration charactericteristics and saturation moisture content of kodo (*Paspalumscrobiculatum* L.) millet.	International Journal of Agricultural Engineering, India	2
8.	**BhawnaShirsat**, S.D.Kulkarni, and S.Patel	Effect of premilling treatments on colour analysis of kodo (*Paspalumscrobiculatum* L.) millet.	International Journal of Agricultural Engineering, India	2009; Vol.2 (1) : 153-156
9.	**BhawnaShirsat**, S.D.Kulkarni, S.Patel, and S.P.Singh	Milling characteristics of kodo (*Paspalumscrobiculatum* L.) millet.	International Journal of Agricultural Sciences, India	
10.	**BhawnaShirsat**, S.Patel, S.D.Kulkarni, P.H.Bakane and ManishaKhedkar	Physical properties of kodo (*Paspalumscrobiculatum* L.) millet.	International Journal of Agricultural Sciences, India	287

National – Nil

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M. Tech	2008	MPKV, Rahuri	First	Soil and Water Conservation Engineering
Ph.D.	Pursuing	MPKV, Rahuri	-	Soil and Water Conservation Engineering

Professional Experience of Teaching/ Research/ Extension**:**			
Designation	From	To	Total (Years)
Senior Research Assistant	06.02.2009	31.08.2016	07 Y 06 M 25 D
Assistant Professor	01.09.2016	Till date	07 Y 04 D
		Total Experience	**14 Y 07 M**

Member of State/National level committee	:	Nil
Member of State/National level Professional Society	:	03
Research Paper Published	:	08
Recommendations	:	05
Research Project Guided B.Tech.(UG level)	:	07

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Research papers published:

Sr. No.	Name of Authors	Name of Journal	Title of paper	Volume number and Year
1	H.M. Palkar, A.V. Gajakos, J.P. Deolekar and **S. M. Palkar**	Green Farming	Performance Evaluation of Conveyor Type Paddy Thresher.	Vol.3 issue 6, November-December, 2012. pp 750-752. **ISSN: 0974-0775**
2.	K.D. Gharde, D.M. Mahale, H.N. Bhange, S.Idate and **S.M. Palkar**	Journal of The Indian Society of Coastal Agricultural Research.	Impact Assessment Soil and Water Conservation Measures on Ground Water Recharge.	Vol. 29 issue 1, January 2011. pp 40-44 **ISSN 0972-1584**
3	D.M. Mahale, K.D. Gharde, H.N. Bhange, S.Idate and **S.M. Palkar**	Journal of The Indian Society of Coastal Agricultural Research.	Rainwater Harvesting through Lined Farm Pond for Sustainable Development of Konkan Region.	Vol. 29 issue 1, January 2011. pp 45-53. **ISSN 0972-1584**
4	Sumati P. Chavan and **Shwetambari M. Palkar**	International Journal of Agricultural Engineering	Performance Evaluation of Paddy Drum Seeder.	Vol.3 issue 2, October, 2010. pp 279-287 **ISSN: 0974-2662**
5	**S.M. Palkar**, R.D. Bansod, H.M. Palkar and B.S.Dhekale	International Journal of Tropical Agriculture	A Discrete Linear Rainfall Runoff Model for Watershed at Shenda Park, Kolhapur (M.S.).	Vol.28, No. 1-2, June 2010, pp 95-100. **ISSN: 0254-8755**

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6	Sachin Nandgude, Sneha Thawakar, Dilip Mahale, Sangita Shinde and Shwetambari Palkar	Ecology Environment & Conservation	Advancement in erodibility estimation and thematic mapping for soils of Konkan	2014, 20 (Suppl.) pp 265-269. ISSN 0971–765X
7	Sachin Nandgude, Sangita Shinde, Dilip Mahale and **Shwetambari Nagarkar**	Agropedology,	Assessment of Soil Organic Carbon Storage in Urmodi Basin of Krishna River using Geographic Information System.	2015, 25 (02), 147-153. **ISSN: 0971 1570**
8	Gauri G. Sane, Shwetambari S. Nagarkar and Sangita S. Shinde	International Journal of Current Microbiology and Applied Sciences	Waste Water Reuse for Agriculture Irrigation- A Review	(2020), Volume 9 Number 12 ISSN: 2319-7706

Association With Professional Bodies: 03

a. Life Member of Indian Association of Agrometeorologist (LM 1084)

b. Life Member of ISASaT,DBSKKV, Dapoli

c. Life Member, ISAE, New Delhi (LM: 10588)

Research Contribution:

1.	**Name of Project**	:	"Land cover mapping with change detection analysis of Konkan region for soil erosion risk assessment using Remote Sensing and GIS"
	Worked as **Scientist**		
2.	**Name of Project**	:	"Innovative Water Resources Development for Enhancing Agricultural Productivity" under the Department of Soil and Water Conservation Engineering, CAET, Dapoli
	Worked as an **Associated Scientist**		
3.	**Name of Project**	:	"Evaluation of Soil and Water Conservation Structures in Selected Watersheds"
	Worked as a Co-scientist		
4.	**Name of Project**	:	"Soil Erosion and Crop Productivity Model for Konkan Region".

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	Worked as a Co-scientist		
6.	**Name of Project**	:	Development of Erodibility map for Konkan region
	Worked as a Co-scientist		