

BIO-DATA

Personal Details :

Name : **Dr. VIKRAM PARASHARAM KAD**

Designation : **Associate Professor of Agril. Process Engg.**
Department of Agril. Process Engineering,
Dr. A. S. College of Agril. Engineering and
Technology,
Mahatma Phule Krishi Vidyapeeth,
Rahuri- 413 722, Dist. Ahmednagar

Date of Birth : 01.01.1975
(First January Nineteen Seventy Five)

Caste & Category : Hindu-Maratha (Open)



Academic Qualification :

- **Ph. D.** with specialization in **Agricultural Process Engineering** from Mahatma Phule Krishi Vidyapeeth, Rahuri, with 8.92 CGPA (89.20 %) (Year 2015).

Dissertation :

Design, Development and Testing of Custard Apple (*Annona squamosa* L.) Pulp-Flakes Extractor, Ph. D. thesis submitted to Mahatma Phule Krishi Vidyapeeth, Rahuri (Maharashtra)

Service Experience : 20 years

Research Achievements :

Patent filed: 07 No.

Machinery Development

- Custard apple pulp- flakes extractor
- Pomegranate aril extractor
- Aonla pricking machine
- On-farm evaporative cooler
- Juice extractor

Product Development

- Kokum Mewa : Kokum Syrup, Kokum RTS, Cashew Apple Syrup, Cashew Apple RTS, Coconut Chips
- Phule Products: Fruit Drinks, Aonla Candy, Jamun Powder, Jamun Juice, Fruit Pulp, Fig Jam etc

Co-Principal Investigator (Externally funded projects) :

A. Coconut Development Board Projects

- Setting up of a Demonstration and Training Center on the Coconut Processing in Konkan Region of Maharashtra.

B. Cashew Board Projects

- Hands on Training of Post Harvest Technology for Cashew Entrepreneurs

C. Asian Development Bank Projects

- Post Harvest Management of Custard Apple.

Internationally Collaborative Project

- Climate Change Knowledge Network for Indian Agriculture (CCKN-IA) - Indo- German Collaborative Project jointly implemented by Ministry of Agriculture and Farmers Welfare, GOI and GIZ, New Delhi as **Content Validator** and **Member for Block level contingency plan development.**(2014-2017)
- ProSOIL Indo-German Collaborative Project jointly implemented by Ministry of Agriculture and Farmers Welfare, GOI and GIZ, New Delhi as **Content Validator** (2017 onwards)

Industrial Collaborative Research Project :

Research Project with M/s. Shirke Construction Equipment Pvt. Ltd., Pune and Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli.

Title : Study on storability of wheat and rice in GIC Silo's, Bag and CAP storage system

Outcome : Commercially used for storage of food grains

Studies on effective supply chain of coriander (*Coriandrum sativum* L.) in collaboration with **M/s. Sahyadri Farmers Producer Company Ltd., Nashik**

Outcome : Commercially used for supply in domestic and export market

Studies on effective supply chain of Okra in collaboration with **M/s. Sahyadri Farmers Producer Company Ltd., Nashik**

Outcome : Commercially used for supply in domestic and export market

Publications :

- Scientific/Research (Full articles): **59**
[NAAS Rating>5: **22**, 5<NAAS Rating>4: **12**, NAAS<4: **20**]
- Technical Publication (Full articles): **08**
- Technical (In abstract form): **115**
- Extension (Popular articles) : **271**
- Member of Editorial Board : **08**
- Books:**10**
- Book Chapters: **21**
- News letter : **03**
- Brochure: **03**

Teaching :

- **Taught various subjects** of Agricultural Process Engineering to under graduate, postgraduate and Ph. D. Students and performed other related tasks such as exam paper setting/ examining/ evaluation of students at MPKV., Rahuri.

Courses taught:

- UG (B. Tech.)** : APE-232, APE-243, APE-244, APE-355, APE-356, APE-368, CAF APE-476 and GAE-473
- PG (M. Tech.)** : PFE-501, PFE-502, PFE-507 and PFE-592
- PG (FST)** : FST-503
- PG (Hort)** : Hort-524, PHT-518, PEE-508 and PHT -507
- Ph. D. (APE)** : PFE-601 and PFE-620
- Ph. D. (FST)** : FST-603
- Recognition to the **university teachers for Ph. D. as Research Guide** of Agricultural Process Engineering
- Recognition to the university teachers for **M. Tech. as Research Guide of Agricultural Process Engineering**
- Recognition to the **university teachers for Ph. D. as Research Guide of Food Science and Technology**
- Recognition to the university teachers for **M. Tech. as Research Guide of Food Science and Technology**
- Recognition to the **university teachers for M. Sc. as Research Guide of Post Harvest Technology**
- Recognition by Dr. Mangala Rai, Hon. Director General, I. C. A. R. , Govt. of India to a remarkable performance in JRF, ICAR Examination.
- Recognition by Hon. Governor, Govt. of Maharashtra to a remarkable performance in JRF, ICAR Examination.

Extension :

A. Organized training programmes for KVK officials/Agriculture officers, self help groups and Farmer's as Co-ordinator

1. Agro Processing Machineries Maintenance and use -18-24 December, 2006
2. Agro Processing Machineries Maintenance and use - 8-14 January, 2007
3. Coconut Processing - Every month one – 18 trainings
4. Cultivation and P.H. T. of fruits crop- **Two trainings** – in the month of May and June, 2008
5. Post Harvest Technology of fruits and vegetables - **Nine Trainings**- Month-March 2014
6. Demonstration of low cost ripening chamber - March 2014
7. Citrus processing - December-2015
8. Post Harvest Technology of Fruits and Vegetables - 16 September, 2017

B. Vocational Training

Organized one vocational training course on Processing and Value Addition of Fruits and Vegetables during the period June 1, 2009 to June 30, 2009

C. Model Training Course

Advances in post harvest management of dryland fruit crops during the period 4th –

21st October, 2016.

D. TV talks: 16 Nos.

E. Radio talks: 21 Nos.

F. Organized/actively participated for organized various training programmes

Organized as co-ordinator : 11 Nos.

Actively participated : 20 Nos.

G. Delivered lectures in 21 days Summer/winter school of Centre of advanced faculty training in Horticulture (Fruits) : **15 Nos.**

H. Delivered lectures in different training programmes organized by University, different organization etc. : more than **120 Nos.**

I. Acted as a lead speaker in the Co-operative organizations of different fruits viz., Guava Growers Association, Pomegranate Growers Association, Fig Growers Association and Custard Apple Growers Association

J. Online training courses for students, faculty, scientists, entrepreneurs and farmers/FPO to the India and abroad

1. One week online training course on “Smart Handling and Processing Systems of Horticultural Produce” during 09-14 May, 2020.

2. Two week online training course on “Advances in Smart Food Processing Technologies” from 04-15 June, 2020.

Developments :

Involved in the purchase and procurement of laboratory instruments/equipments and establishment and development of following laboratories

- **Post Harvest Technology Centre** (Established RTS line including mixing tanks, filter, centrifugal pump, homogenizer, pasteurizer, boiler, compressor, etc. and other required machinery for processing of fruits and vegetables, Total Approximate Cost: Rs. 40.00 Lakhs)
- **New Post Harvest Technology Centre** (RTS line – capacity 300lit/hr, Canning line-capacity 500 Kg/hr, Water treatment plant, boiler, Compressor, etc., Total Approximate Cost: Rs. 78.00 Lakhs)
- **Quality Control Laboratory and Instrumentation Cell** (NIR spectra, Colour scan, Textural analyzer, Viscometer, Seed analyser etc., Total Approximate Cost: Rs. more than 1 crores)

Commercialization of Various Processed Products

a. Development of “**Kokum Mewa**” Health Food Products of Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli inaugurated at Joint Agresco-2007, MPKV., Rahuri.

Products : Kokum Syrup, Kokum RTS, Cashew Apple Syrup, Cashew Apple RTS, Coconut Chips.

b. Development and commercialization of **Phule Fruit Products** through large – scale production

Products : RTS, Aonla Candy, Aonla supari, Mango pulp, Aonla pulp, Tamarind pulp, Jamun juice, Jamun powder etc.

- Standardization of packaging of products for better keeping quality and higher commercial value.

- Commercialization of products through large-scale production and entrepreneurship development.

Setting up of Demonstration and Training Facilities

1. Coconut Processing in Konkan Region of Maharashtra.
2. Post Harvest Technology for Cashew Entrepreneurs.

To built up the entrepreneurship among the students through various demonstrations

Revolving Fund :

- Production and marketing of RTS, Aonla candy, fruit pulps, jamun juice, jamun powder etc. since 2008-09.
- Generated revenue receipts for last five years : about **Rs. 27 lakhs.**

Member of National/ State / /University Level Committees :

- Invitee Member of Faculty of Agricultural Engineering
- Invitee Member of Board of Studies in APE
- Invitee Member of Board of Studies in FST
- Member of admission committee (UG, PG and Ph.D.) at University level
- Acted as Chairman, Member and Member Secretary of different committees constituted for organisation of different events in college level and university level.
- Member of purchase committee constituted for the purchase of laboratory instruments and equipments at University level.
- **Expert member in purchase committee at Saibaba Sansthan, Shirdi, Dist. Ahmednagar**
- **Comprehensive District Action Plan :** Prepared and presented the "**Comprehensive District Action Plan of Post Harvest Technology for Jalgaon District**"
- Worked as **expert member in planning of KVK action workshop** of MPKV, Rahuri
- Worked as expertise personnel and member for the various training activities related to post harvest technology under the scheme **National Horticulture Mission, Directorate of Horticulture, Pune**

Awards :

- **"Engineering Achievement Award"**, by the Institution of Engineers (India), Ahmednagar Local Centre on 48th Engineers Day in recognition of Excellence performance and remarkable work in Engineering field – 2016
- **"Agro-care Best Teacher Award"** by Balidharma Charitable Society and Agrocare Krishimancha, Nashik – 2014
- **"Fellow Award"**, Society of Krishi Vigyan, Ludhiana – 2017
- **"Best Poster Presentation Award"**, Standardization of RTS premix from spray dried pomegranate juice powder- International Conference on Agricultural Economics organised by MPKV, Rahuri – 2016-17
- **"State level engineering project exhibition cum competition (Dipex, 1996) "**, winner of **first prize**

Subject: Fabrication and Testing of Pomegranate Seed Extractor

“National Level Exams Qualified:

- JRF-1997 Examination.

Membership of professional Societies :

1. Indian Society of Agricultural Engineers (LM-9930)
2. The Institution of Engineers (India) (AM094464-8)
3. The Society of Krishi Vigyan (LM- 2702017)
4. Indian Society of Vegetable Science (LM- 215)
5. Journal of Agriculture Research Technology (LM-1450)
6. Association of Alumni Agricultural Engineers (LM- 411)
7. Association of Food Scientists & Technologists (INDIA), CSIR – CFTRI, Mysuru (AFST/LM/3-2019/ZON/2991).

Specialized trainings attended:

- Winter school on, “Recent advances in development of automatic systems/machines for secondary agriculture”, by CIPHET, Ludhiana, Punjab during 18 Nov.- 08 Dec., 2015
- Winter school on, "Quality control, National and International framework for food standards and safety management in food chain" held at Mahatma Phule Krishi Vidyapeeth, Rahuri during 5-25 September, 2009
- Winter school on, "Value addition of grapes with special reference to wine making" held at Mahatma Phule Krishi Vidyapeeth, Rahuri during 5-25 February, 2010
- National Level Training Course on, "Post harvest handling and value addition of tropical and subtropical fruits" held at Dr. BSKKV, Dapoli during 15-24 March, 2005
- National Level Training Course on, "Mechanization of production and post production operations in plantation crops" held at Central Plantation Crops Research Institute (ICAR), Kasaragod, Kerala during 17-26 November, 2005
- Short Term Training course on, "Training on coconut processing products held at Coconut Development Board, Kochi, Kerala during 5-9 March, 2006
- National Level Training Course on, "Seed processing and storage" held at National Seeds Corporation Ltd., Govt. of India, New Delhi during 15-19 January, 2007
- Training on, “MATLAB Applications for soft computing and simulation in agriculture”, by Dept. of FSRE, Dr. ASCAET, MPKV, Rahuri during 3-11 February, 2014
- Summer Placements Training Course on, " Storage of grains", held at Indian grain Storage Institute, Field Station Rajendranagar, Hyderabad (A.P) during 1-30 June, 1996

Other activities :

- Represented Mahatma Phule Agricultural University in, “Inter-University Volley-Ball Tournament”, held at Mumbai University, Mumbai in 1996-97 and Jiwaji University, Gwalior in 1997-98.
- Represented Mahatma Phule Agricultural University in, “First Maharashtra State

Inter-University Volley-Ball Tournament (Ashwamedh-97)", held at Shahaji Raje Bhosale Sports Complex, Mumbai during 27th November, 1997 to 1st December, 1997.

- National Service Scheme (NSS) during 1993-1997.
- Completed Bharat Scout and Guides three years course successfully in 1990-91
- Worked as member of Annual Social Gathering Committee of students' council during the year 1994-95.
- Worked as a Team Manager for Intercollegiate Volley Ball Tournaments
- Worked as a Team Manager (Volley Ball) for Ashwamedh – 2004 held at Nanded
- Participated in the Staff Welfare Sports organized at MPKV, Rahuri
- Worked as Technical Officer to Dean, Faculty of Agricultural Engineering, Dapoli
- Worked as Technical Officer to Associate Dean, College of Agricultural, Dhule

Vision:

- ✓ Contributing towards doubling of farmer's income through value addition in agricultural products. For this extensive use of advance technologies for processing, packaging and transportation is need of hours.
- ✓ Processing technologies needs to be spread to farmer's field with better awareness through extension programmes.
- ✓ Innovation in packaging is prudent step in making the product unique and saleable in the competitive markets.
- ✓ Better transportation facilities for longer shelf life and minimum wastage will make the agricultural product accessible and available to larger masses of the nation.



(V. P. Kad)