



## **BIODATA**

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Name : **Dr Rajesh G K**

Date of birth : 23-05-1974

Permanent Address : Sabarimuttom G K Bhavan, Kamukincode

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Official Address : Assistant Professor

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## **Educational Qualifications**

<b>SL No</b>	<b>Degree awarded</b>	<b>Name of board/University</b>	<b>Year of passing</b>	<b>Percentage Marks</b>
1	S S L C	Board of secondary Education	1989	82
2	P D C	Kerala University	1999	81
3	BTech(Agrl Engg)	Kerala Agrl University	1996	80
4	ME(Agrl Processing)	Tamil Nadu Agrl University	1999	88

5	PhD(Agricultural Processing & Food Engg)	Tamil Nadu Agrl University	2015	87
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### **SERVICE HISTORY (KAU)**

- Assistant Professor :22-10-2008 to till date

<b>TEACHING</b>
<ul style="list-style-type: none"> <li>• Teaching students of B.Tech (Agrl. Engg.), B.Tech (Food Tech.), M.Tech (Agrl. Engg.) and Ph.D (Agrl. Engg.).</li> <li>• Handling courses for B.Tech on Engineering Properties of food produce, Crop Process Engineering, Drying Technology etc.</li> <li>• Handling courses for M.Tech and Ph.D such as Textural and Rheological characteristics of Food Materials, Biomass and Agricultural by-products utilization, Fruits and Vegetables process Engineering, Processing of cereals, pulses and oil seeds, Unit operations in food process engineering etc.</li> <li>• Other routine academic activities such as student advisorships, student seminar evaluation etc</li> <li>• Course teacher for Industrial attachment/ Internship</li> <li>• Course Teacher of Skill Development Training Programme</li> <li>• Course teacher of Experiential learning programme</li> </ul>

<b>RESEARCH</b>
<b>Academic Research</b>
<ul style="list-style-type: none"> <li>• Chair person of 3 students for Masters Programme and 1 PhD scholar.</li> <li>• Fields of research – Post Harvest Engineering and Technology, Thermal processing, Extrusion Technology, Spray Drying etc.</li> <li>• Member of advisory committee of 4 M.Tech students, and 1 Ph.D scholar.</li> <li>• Project Guide for 3 Undergraduate Projects.</li> </ul>

## **EAP Research projects**

- PI of All India Coordinated Research Project on Post Harvest Engineering & Technology (AICRP on PHET) funded by ICAR - Continuing.  
(**Major objectives**- To adopt and develop post harvest processes and equipment for value addition of Agricultural Commodities. To conduct operational research and multi location trials on developed technologies. To identify constraints for better market acceptability. Establishment of agro processing centres. Transfer of proven technologies to suit various agro climatic conditions in India)
- PI of the state plan project on “Establishment of Centre of Excellence on Post Harvest Technology” – Establishment of Agri- Business incubator (ABI) facility. - Continuing.  
(**Major objectives** - Establishment of Agri-business incubation centre, Standardisation protocols for commercial production of food products, Business plan preparation, Training and demonstration for food processing entrepreneurs.)

## **List of Publications -Journals**

1. Moisture dependant physical properties of Yam bean seeds, African Journal of Root and Tuber Crops(2004) Vol 6, No 1, pg16-19
2. Rajesh, G.K., Thirupathi, V., EyarkaiNambi, V and Pandiselvam, R. 2014. Optimization of Extrusion Cooking process for rice fish extrudates with an underutilized fish mince based on physical, functional and textural properties. Agricultural Engineering Scientific Journal. 2(4) 9-21.
3. Pandiselvam, R., Amreena Jan, N.J., Parthasarathi, G., Rajesh, G.K and Kaveri, C. 2014. Development and performance evaluation of mobile irrigator for dryland agriculture. Agricultural Engineering Scientific Journal. 3(4) 53-62.
4. Rajesh, G.K and Thirupathi, V. 2014. Rheological and film properties of banana flour hydrocolloids composites. Trends in biosciences. 7(16) 2010-2116.
5. Rajesh, G.K and Thirupathi, V. 2014. Effect of plasticizers on Rheology of banana flour and the mechanical and functional properties of banana flour composite films. Trends in biosciences. 7(15) 2043-2048.
6. Rajesh, G.K., Pandiselvam, R., Aswathi and Indulekshmi. 2016. Development and

- performance evaluation of plantain peeler cum slicer. *Agricultural Engineering Scientific Journal*. 2(4) 41-50.
7. Srikanth, V., Rajesh, G.K and Manikantan, M.R. 2016. Physical, Mechanical and frictional properties of *Criollo var. cocoa* pod. *Advances in life sciences*. 5(18) 7434- 7437.
  8. Rajesh, G. K., Thirupathi, V., Anjineyulu Kothakota, Ravi Pandiselvam and Gowthami. K (2017) Development of Biodegradable Film based on Banana Flour- Plasticizer for Quality Packaging of Food Products, *Vegetos- An International Journal of Plant Research*, International publisher of science, technology and medicine, 30:3.
  9. V.S. Sreekutty and G.K. Rajesh Development and Quality Evaluation of Spray Dried Probiotic Yoghurt Containing *Lactobacillus 6759 bulgaricus* and *Streptococcus thermophiles*
  10. T. Bindhya Dhanesh S.M. Sasmila Bai, B.G. Akhila, KP. Shareena and G.K. Rajesh Effect of Storage on the Sensory and Microbial Quality of Blanched and Quick Frozen Jackfruit Samples *Int.J.Curr.Microbiol.App .Sci* (2018)7(3): 913-917
  11. S. M. Sasmila bai, Anjineyulu Kothakota<sup>2</sup>, G.K. Rajesh, K. Lavanya and A B Kubde Determination and Optimization of Process Parameter for Osmotic Dehydration of anola Using Sugar Syrup and Salt Trends in Biosciences 10(10), Print : ISSN 0974-8431, 1911-1915, 2017
  12. Rasmi Janardhanan, Rajesh G.K(2017) Optimisation of Blanching Time for Cassava – Pre-Treatment for Processing. *International Journal of Engineering Science and Computing*, October 2017 7(10) :9211-9214 ISSN 2321- 3361 Pp
  13. Sreekutty, V. S and Rajesh, G. K.(2017) . Development and Quality Evaluation of Spray Dried Probiotic Yoghurt Containing *Lactobacillus bulgaricus* and *Streptococcus thermophiles*. *Trends in Biosciences* 10(32) ISSN 0974-8431, 6759-6766
  14. R. Pandiselvam, M.R. Manikantan, Anjineyulu Kothakota, G.K. Rajesh, Shameena Beegum, S.V. Ramesh, V. Niral & K.B. Hebbar (2018): Engineering properties of five varieties of coconuts (*Cocos nucifera* L.) for efficient husk separation, *Journal of Natural Fibers*, DOI: 10.1080/15440478.2018.1507863 ISSN: 1544-0478
  15. Drishya. C1, Rajesh. G. K2, Mufassil Usman<sup>3</sup>, Vinduja. P. V4, Shahama. K5, Binuja Thomas<sup>6</sup>(2019) Development and Evaluation of a Batch Type Rotary Cocoa Dryer *IJESC* Volume 9 Issue No. 5
  16. V. Srikanth, G.K. Rajesh and Anjineyulu Kothakota (2019) Physico-chemical and Microbial changes in Cocoa Beans during Different Methods of Fermentation *Indian Journal of Ecology* (2019) 46 *Special Issue* (7): 154-159

17. Rajesh. G. K 1, Sudheer. K. P2, Santhi. M. M 3, Praveena. N4, Nithin. K5(2019) Development and Performance Evaluation of Black Pepper Decorticator IJESC Volume 9 Issue No. 7
18. Azad Gaurh1, Anjineyulu Kothakota\*1,Sankar Rao2, Ranaselva3, Gourikutty Kunjurayan Rajesh 3(2017) Quality Characteristics of Microwave Assisted Fluidized Bed Dried Button Mushrooms(*Agaricusbisporus*)scientific journal Agriultural Engineering No.1,2017 Page 1 to 10
19. R Pandiselvam, R Kailappan, Anjineyulu Kothakota, G K Rajesh, B Kamalapreetha (2020) Development and Evaluation of Rasp Bar Mechanism for the Extraction of Onion (*Allium Cepa* L.) Seeds (*Agricultural mechanization in Asia, Africa and Latin America*)- (NAAS rating: 6.14)
20. V. Srikanth, G K Rajesh, Anjineyulu Kothakota, R. Pandiselvam and Nukasani Sagarika, M R Manikantan and K P Sudheer(2020) Modeling and optimization of developed Cocoa Beans Extractor Parameters using box benhnken design and artificial neural network (*Computers and Electronics in Agriculture*)- (NAAS rating: 11.57)
21. Sreekutty Suresh and Rajesh G K (2020) Reconstitution Properties of Spray Dried Yoghurt Powder (*International Journal of Research in Engineering and Technology*)
22. P. Babu and G K Rajesh (2021) Application of Fuzzy Logic for Sensory Evaluation of Pre-treated Vaccum Fried Carrot Chips (*Indian Journal of Ecology*)- (NAAS rating: 5.79)
23. P V Alfiya, G K Rajesh, S Murali, D S Aniesrani Delfiya, Manoj P Samuel (2022) Quality evaluation of solar and microwave dried shrimps- A comparative study on renewable and dielectric heating methods ( *Solar energy* )-(NAAS rating: 11.74)
24. Palli V Alfiya, Gourikutty K Rajesh, Subramaniam Murali, Dhanapaul S Aniesrani Delfiya, Manoj P Samuel, Manadan V Prince (2022) Development and Evaluation of Hot Air-assisted Microawave Dryer for shrimp (*Metapenaeus dobsoni*) (*Journal of Food Processing and Preservation*)- (NAAS rating: 8.19)
25. P V Alfiya, G K Rajesh, S Murali, D S Aniesrani Delfiya, Manoj P Samuel, M V Prince, K P Sudheer (2023) Process optimization for drying of shrimp (*Metapenaeus dobsoni*) under Hot Air-assisted Microawave drying technology using response surface methodology (*Journal of Food Process Engineering, Wiley Publishers*)

### **National conference attended/proceedings**

1. Rajesh G K, Mufassil Usman, Drishya and Anjineyulukotha Kota (2017). Drying of cocoa beans in developed artificial batch type dryer in 52nd Annual Convention of ISAE and National Symposium on Doubling Farmers Income through Technical Interventions. Page No.38
2. P Babu, Rajesh G K, B O Madhu, S Sai Mohan and Prakash A(2020). Low cost storage structures for reducing post harvest losses-A Review. National conference on “Agriculture and smart village for sustainable development” from 7-8, February 2020. The Institution of Engineers(India), Karnataka state centre.
3. Praveena, N., Shahma, K., Babu, P., and Rajesh G.K. 2019. Effect of Pre-treatments on Quality Parameters of Vacuum Fried Breadfruit Chips [abstract]. 11<sup>th</sup> National seminar on New vistas in food processing sectors; 16, October, 2019, Tamilnadu Agricultural University, Tamil Nadu, p.110. ISBN: 97893-88993-18-0.
4. Srikanth, V, Rajesh G K and Anjineyulukotha Kota “**Development and Evaluation of a Continuous Cocoa Pod Breaker**” at International Conference on Food Processing and Agribusiness Emerging Trends (ICFPA-18) took place in Bangalore on January 18-19, 2018.
5. Ardra C Babu and Rajesh G K (2022) Ozone Treatments for improving the quality parameters and surface decontamination of tomato, 34<sup>th</sup> Kerala Science Congress, Mar Ivanios College, Thiruvananthapuram, Page No. 59

### **ACADEMIC, ADMINISTRATION & CO-CURRICULAR ACTIVITY**

#### **MANAGEMENT**

- Placement Officer
- In-charge of Guest House
- Executive Committee member of PTA
- Life member of Indian Society of Agricultural Engineers(ISAE)
- Life member of Association of Food Scientist and Technologist(AFST)

## **Award/ Recognition**

1. Received second best centre award of ICAR- AICRP on Post Harvest Engineering and Technology during the 38th annual workshop of AICRP on PHET conducted at CPCRI, Kasaragod from 20 to 22 February 2023.

Certified that all the information given above are true to the best of my knowledge and belief.

Tavanur:  
01-11-2023

**Dr. Rajesh.G.K**  
Assistant Professor, Dept. of PFE  
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Kerala Agricultural University