Dr. P. KANDASAMY, Ph.D
Associate Professor
Department of Agricultural Engineering

Corresponding Address : Department of Agricultural Engineering
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Educational qualifications:

- B.E (Ag. Eng.), Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu, 1998
- M.E (Ag. Eng.) in Agricultural Process Engineering, TNAU, Coimbatore, Tamil Nadu, 2001
- Ph.D (Ag. Eng.), Visva-Bharati (A Central University), Santiniketan, West Bengal, 2013

Teaching experience:

- Working as Associate Professor in the Department of Agricultural Engineering, Palli Siksha Bhavana (Institute of Agriculture), Visva-Bharati, Sriniketan, West Bengal since 2004.

Area of Specialization:

- Food and Agricultural Process Engineering

Research Area:

- Drying Technology
- Modified/Controlled Atmosphere Storage
- Fruit processing and value addition including underutilized fruits
- Solar energy for food/fish processing
- Food Irradiation

Students guided:

- Supervising 4 PhD Students (ongoing)

Publications:

- National and International journal publications: 23
- Book chapters/Full length papers in proceedings: 8
- Paper presented in Seminar/Conference/Symposium: 23
- Participated in Orientation/Refresher/Short term courses: 7
- Practical Manuals: 3

Significant Publications:

- Olipriya, B., Kandasamy, P and Sarkar, P. (2020). Effect of cooling in a fabricated solar cooler on histology of Pangasius (Pangasianodon hypothalamus) muscle. Indian Journal of Animal Health, 59(1): 73-77. DOI: 10.36062/ijah.59.1.2020.73-77
- Kandasamy, P and Mukherjee, S. (2019) Enhancing shelf life of tomato under controlled atmosphere condition using diffusion channel system. Engineering in Agriculture, Environment and Food (Elsevier), 12(1): 1-10.
- Kandasamy, P., Varadharaju, N., Dhakre, D. S. and Smritikana, S. (2019) Assessment of physicochemical and sensory characteristics of foam-mat dried papaya fruit powder. International Food Research Journal 26(3): 819-829.
- Kandasamy, P. (2017) Mathematical modeling of diffusion channel length to maintain steady-state oxygen concentration for controlled atmosphere storage of tomato. International Journal of Food Properties (Taylor & Francis), 20(S2): S1424-S1437.
- Kandasamy, P., Moitra, R and Mukherjee, S. (2015) Measurement and modeling of respiration rate of tomato (cultivar Roma) for modified atmosphere storage. Recent Patents on Food, Nutrition & Agriculture (Bentham Science), 7(1): 62-69.
- Kandasamy, P., Varadharaju, N., Kalemullah, S and Maladhi, D. (2014) Optimization of process parameters for foam-mat drying of papaya pulp. Journal of Food Science and Technology (Springer), 51(10): 2526-2534.

Books/Research books/Edited books:

- Kandasamy P. (2013) Studies on foam-mat drying of papaya (*Carica papaya*) fruit. LAB LAMBERT Academic Publishing, Saarbrucken, Germany. ISBN: 978-3-659-37432-6.
- Kandasamy, P. (2017) Controlled atmosphere storage of tomato using diffusion channel system. LAB LAMBERT Academic Publishing, Germany. ISBN: 978-3-330-04812-6.
- K.C.Swain., A.K.Chatterjee and P. Kandasamy (2018). Advance Technologies in Agriculture for Doubling Farmer's Income. New Delhi Publishers, Delhi. ISBN: 978-93-86453-61-7.
- Kandasamy, P. (2021) Practical Book of Agricultural Engineering, New India Publishing Agency, New Delhi. ISBN: 978-81-94766-80-3.

Seminar/workshop/Training program organized:

- One day farmers training program on "Agricultural Machinery and Hands on Tools" on 21st March 2017 as Co-coordinator
- One day National Seminar cum Panel Discussion on "Doubling Farmers Income: Role of Agricultural Mechanization" 29th January, 2018 as Convener
- 5-day workshop on "Geoinformatics in Agriculture and Environment" during 24-29 March 2019 as Co-coordinator

Award/Prize/Certificate/Fellowship:

- KIADEF-Krishnamurthy International Agricultural Development Foundation Fellowship - 1999-20
- Best participant award: ICAR sponsored Winter School at the National Institute of Research on Jute and Allied Fibre Technology, Kolkata, 2016.
- Research Leadership Award: International Best Researcher in Post-harvest Engineering awarded by IJRULA & Rula Awards in association with World Research Council and United Medical Council, 26th January, 2020.

Attachment to the Professional Bodies:

- Life member: Association of Food Scientist and Technologists (India), India
- Life member: Indian Society of Agricultural Engineers, New Delhi, India
- Life member: The Institution of Engineers (India), Kolkata, India
- Reviewer: Journal of Food Science and Technology (Springer)
- Reviewer: Journal of Food Process Engineering (Willey)
- Reviewer: International Journal of Fruit Science (Taylor & Francis

Courses Teaching:

Under Graduate level [B.Sc (Ag.)]

- Introductory Soil and Water Conservation Engineering
- Principles of Food Science and Nutrition
- Protected Cultivation and Postharvest Technology
- Farm Machinery and Power
- Renewable Energy and Green Technology
- Agricultural Waste Management (elective)
- Rural Agricultural Work Experience and Agro-industrial Attachment

Ph.D level (Agricultural Engineering)

- Advances in Food and Agricultural Process Engineering
- Advances in Soil and Water Conservation Engineering
- Research Methodology and Techniques
- Review of Research Work and Written Presentation of Synopsis