

Dr. Soumya Krishnan V

Agricultural Engineer

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Professional Summary

Ph.D. in Farm Machinery and Power Engineering with expertise in agricultural mechanization, robotics, precision agriculture and machine design. ICAR-NET qualified with strong research background in design and development of robotic paddy transplanters. Passionate about teaching, research and technology development for sustainable agriculture.

Education

- **Ph.D. in Farm Machinery and Power Engineering**
ICAR-Indian Agricultural Research Institute, New Delhi 2021–2026
- **M.Tech. in Farm Machinery and Power Engineering**
AEC & RI, Tamil Nadu Agricultural University 2016–2019
- **B.Tech. in Agricultural Engineering**
Kerala Agricultural University 2012–2016

Professional Experience

- Head of Department (i/c), Department of Agricultural Engineering, Ilahia College of Engineering and Technology
- Young Professional-II, ICAR-CIFT, Cochin
- District Engineer, MGNREGS, Alappuzha

Research Interests

- Agricultural Robotics
- Farm Machinery and Power
- Precision Agriculture
- Mechanization of Paddy Cultivation
- Machine Design

Research Projects

- **Ph.D.:** Design and Development of Robotic Paddy Transplanter for Root-Washed Seedlings
- **M.Tech.:** Development of Self-Propelled Floating Puddler for Lowland Paddy Field
- **B.Tech.:** Development of a Power Operated Rubber Tapping Device

Awards & Achievements

- Kerala Agricultural University (KAU) Sardar Patel Outstanding ICAR Institutional Award
- B.Tech. Gold Medal in Agricultural Engineering
- Qualified ICAR-NET (Agricultural Engineering) with 57%
- Awarded Senior Research Fellowship (SRF) for Ph.D. at ICAR-IARI
- Secured All India Rank 2 in the ICAR JRF/SRF (Ph.D.) Competitive Examination

Publications

1. Kinematic Analysis of Transplanting Mechanism for Root Washed Paddy Seedlings Using Solid-Works. *Journal of Scientific Research and Reports*.
2. Energy Consumption Pattern in Irrigated Paddy Cultivation in Thiruvannamalai District of Tamil Nadu: A Case Study. *Journal of Experimental Agriculture International*.
3. Energy and Water Consumption Pattern in Seafood Processing Industries and Its Optimization Methodologies. *Cleaner Engineering and Technology*.
4. Mathematical Modeling of Drying Kinetics and Quality Characteristics of Shrimps Dried under a Solar-LPG Hybrid Dryer. *Journal of Aquatic Food Product Technology*.
5. Comparative Evaluation of Different Tilling Wheels of Float Assisted Puddler for Lowland Paddy Field. *Research Journal of Agricultural Sciences*.
6. Static and Dynamic Cutting Forces in Coriander Crop Harvesting: Engineering Insights for Harvester Optimization. *Smart Agricultural Technology*.
7. A Finite Element Modeling-Based Approach to Predict Vibrations Transmitted Through Different Body Segments of the Operator Within the Workspace of a Small Tractor. *Journal of Field Robotics*.
8. ANN-PID Based Automatic Braking Control System for Small Agricultural Tractors. *Journal of Field Robotics*.

References

Dr. Pramod Kumar Sahoo

Principal Scientist & Head

Division of Agricultural Engineering

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