

Scientific Publications

Research Articles

1. **Varsha Nakala, R.K. Mathukia, P.K. Chovatia and R.M. Solanki. (2021).** Productivity of groundnut + pigeonpea relay intercropping system as influenced by weed management options. *Legume Research*, 47(9): 1606–1612.
2. **Varsha N. and Mathukia, R.K. (2021).** Economical efficacy of weed management options in groundnut + pigeonpea relay intercropping system. *International Journal of Environment and Climate Change*, 11(6): 1–8.
3. **Varsha N., Pratibha G., Madhavi M. and Ramprakash T. (2020).** Energy balance studies of weed control practices in rainfed cotton. *Indian Journal of Agricultural Research*, 54(4): 489–494.
4. **Varsha N., Madhavi M. and Ramprakash T. (2020).** Economical efficacy of diuron as a weed control option in rainfed cotton. *The Journal of Research, PJTSAU*, 48(1&2): 75–78.
5. **Varsha N., Madhavi M., Ramprakash T. and K.B. Suneetha Devi. (2019).** Relative density of weeds and weed indices as influenced by weed control options in cotton. *Indian Journal of Weed Science*, 51(1): 86–91.
6. **Varsha N., Ramprakash T., Madhavi M. and K.B. Suneetha Devi. (2019).** Acid and alkaline phosphatase enzyme activity influenced by diuron. *Journal of Pharmacognosy and Phytochemistry*, 8(3): 2177–2180.
7. **Varsha N., Madhavi M. and Ramprakash T. (2018).** Efficacy of diuron along with sequential application of herbicides for weed control in cotton. *International Journal of Current Microbiology and Applied Sciences*, 7(6).
8. **Varsha N., Ramprakash T., Madhavi M. and K.B. Suneetha Devi. (2018).** Urease and dehydrogenase enzyme activity influenced by diuron. *International Journal of Chemical Studies*, 6(5): 1656–1659.

Popular Articles

1. **Kavitha A., D. Shivani, K. Mahendra and N. Varsha. (2025).** Advancing agricultural frontiers through space breeding, pathogen defense, and agronomic insights. *Agriculture & Food-E Newsletter*, 7(10): 92–94.
2. **Varsha N., Karthika M., Dhanshree B.J., Joseph B. and A.P.K. Reddy. (2026).** Eco-friendly weed control: The science and scope of bioherbicides. *Agrimagazine*, 3(5): 563–566.
3. **Karthika M., Mahesh B.N., Varsha N., Joseph B. and A.P.K. Reddy. (2026).** Biochar: A zero-waste and carbon-negative resource with vast potential. *Agrimagazine*, 3(4): 203–207.
4. **Ruthvik K. and Varsha N. (2026).** Cow-centric agriculture: A solution to food security and poverty alleviation. *Agrimagazine*, 3(4): 338–342.

5. **Varsha N. and Lavanya N. (2020).** PGRs – An option to alleviate abiotic stress in cotton. *Agrobios*, 18(9): 42.
6. **Varsha N. and Vijaya Gowri. (2020).** Impact of herbicides on soil environment. *Agrobios*, 18(10): 42.
7. **Varsha N. and Lavanya N. (2019).** Jeevana eruvula. *Vyavasaya Padipantalu*, June, p. 33.
8. **Varsha N., Madhavi M. and Lavanya N. (2019).** Pogaku malle – parani jeevi kalupu mokka. *Vyavasaya Padipantalu*, June, p. 40.
9. **Varsha N. and Shiva Kumar R. (2019).** Sendriya vyavasayam lo kalupu yajamanyam. *Vyavasaya Padipantalu*, July, p. 25.
10. **Varsha N., Lavanya N. and Shiva Kumar R. (2019).** Vyavasayamlo jeevana eruvula paathra. *Vyavasaya Padipantalu*, July, p. 41.
11. **Varsha N. and Lavanya N. (2019).** Influence of tillage on weed dynamics. *Agrobios*, 18(8).
12. **Lavanya N. and Varsha N. (2019).** Internet of Things and Artificial Intelligence – A step for advanced farming. *Agrobios*, 18(2): 26.
13. **Lavanya N. and Varsha N. (2019).** Improved trends in fertigation management. *Agrobios*, 18(6): 09.

Book Chapters

1. **Gopi G., Varsha N. and Sudha Rani. (2025).** Irrigation systems: Surface, sprinkler, and drip design. In: *Soil Conservation Technologies for the 21st Century*, pp. 333–351.
2. **Gopi G., Varsha N. and Sudha Rani. (2025).** Agricultural drainage systems and salinity management. In: *Soil Conservation Technologies for the 21st Century*, pp. 352–364.
3. **Varsha N., Lavanya N. and Shiva R.K. (2021).** Biofortification. In: *Agriculture and Forestry: Current Trends, Perspectives, Issues-IV*. Immortal Publications, pp. 112–126.
4. **Varsha N., Lavanya N., Gowri and Madhavi M. (2019).** Remote sensing in weed management. In: *Advances in Agronomy*, Vol. 5. Akinik Publications, pp. 1–23.
5. **Lavanya N., Varsha N. and Rajap Shiva Kumar. (2019).** Role of artificial intelligence and Internet of Things in agriculture. In: *Research Trends in Agricultural Extension – Advances in Agronomy*, Vol. 5. Akinik Publications, pp. 71–88.
6. **Shiva R.K., Varsha N. and Lavanya N. (2021).** Weed mapping using PS and GIS. In: *Agriculture and Forestry: Current Trends, Perspectives, Issues-IV*. Immortal Publications, pp. 507–518.
7. **Chandrashekhar G., Prabhavathi K., Varsha N. and Sruthi D. (2022).** Importance of indigenous technical knowledge systems in organic farming. Scripown Publications, 1: 7–19.

Conference Presentations

1. **Varsha N., Kupirala Sai Shivani, J. Tanmai and S. Vaishnavi. (2025).** Enhancing resilience of dryland agriculture: Climate change impacts, adaptive practices, and socio-ecological strategies. *X International Conference*, MPUAT, Udaipur, 5–7 October 2025.
2. **Lavanya N. and Varsha N. (2025).** Organic farming as a strategy for climate change adaptation and mitigation potential. *12th International Conference on Agriculture & Veterinary Sciences*, Goa College of Agriculture, 16–18 November 2025.
3. **Varsha N., Lavanya N., Vinay G. and Shiva Kumar R. (2025).** Ecosystem-based adaptation as a nature-based strategy for climate resilience. *World Congress on Climate Change and Its Effects*, AETDS, Uttarakhand, 6–8 September 2025.
4. **Varsha Nakala and Mathukia R.K. (2021).** Economics of weed management practices in groundnut + pigeonpea relay intercropping system. *5th International Agronomy Congress*, 23–27 November 2021, India, Vol. 2, pp. 583–584.
5. **Varsha N., M. Madhavi, T. Ramprakash and K.B. Suneetha Devi. (2021).** Economical efficacy of diuron as a weed control option in rainfed cotton. *National Conference*, 20–21 April 2019, Meerut.
6. **Lavanya N. and Varsha N. (2020).** Growth stage-based irrigation and fertigation strategies for higher productivity. *International Conference on Advances and Innovations in Agriculture & Allied Sciences*, JNU Convention Centre, New Delhi, 31 January–1 February 2020, p. 112.
7. **Varsha N., M. Madhavi, T. Ramprakash and K.B. Suneetha Devi. (2019).** Influence of weed control practices on nutrient uptake and quality of rainfed cotton. *National Conference*, Tirupati, 7–8 March 2019, p. 36.
8. **Varsha N., M. Madhavi and T. Ramprakash. (2019).** Influence of weed control options on growth and yield of cotton. *3rd AgriNANO Conference*, RARS, Tirupati, 13–14 June 2019, p. 76.
9. **Varsha N., Pratibha G., Madhavi M. and Ramprakash T. (2019).** Energetics as influenced by weed control practices in rainfed cotton. *GRISAAS-2019*.
10. **Varsha N., M. Madhavi and T. Ramprakash. (2018).** Bio-efficacy of diuron along with sequential application of herbicides for weed control in cotton. *ISWS Golden Jubilee International Conference*, Jabalpur.

Trainings / Professional Development

1. **Remote Sensing Applications in Agriculture Water Management** – Indian Institute of Remote Sensing (IIRS).
2. **Conservation Agriculture Based Crop Management Technologies** – Training programme on conservation agriculture and resource-conserving technologies.
3. **Carbon Sequestration for Climate Smart Agriculture** – Training programme on carbon sequestration and climate-smart agricultural practices.

4. **Data Science in Agriculture** – Training programme focusing on data science applications in agriculture.
5. **Statistical Learning Programme** – Training programme on statistical learning and data analysis.
6. **ICT Applications and Technologies in Agriculture** – Training programme on ICT tools and emerging technologies for agricultural applications.
7. **Remote Pilot Certificate (RPC)** – Successfully obtained Remote Pilot Certificate from Kaveri Drone Training Academy.