

Jurnal Teknik Pertanian (J-TEP) is a scientific journal devoted to publish results of research, development, studies or ideas in the field of agricultural sciences, engineering, and technology in a broad sense. The scope of J-TEP includes (but is not limited to) the fields of: water-plant-land resource engineering, agricultural environment, bioprocess engineering, post-harvest and agro-industrial technology, farm power and equipment, renewable energy, agro-industrial wastes, control systems and artificial intelligence, robotics, and IoT applications in agriculture. Starting in 2019, J-TEP is published 4 (four) times a year: March, June, September, and December. Since 2016, J-TEP has been accredited to the SINTA-3 journal based on the Decree of the Director General of Higher Education No.21/E/KPT/2018, and since Vol. 11, No. 3 (September 2021) J-TEP has been accredited as a SINTA-2 journal based on the Decree of the Director General of Higher Education, Research and Technology No. 164/E/KPT/2021. Starting from Vol. 11, No.1 (March 2022) J-TEP is published in English. J-TEP is open to the public and invites researchers, students, practitioners, and observers in the world of agricultural engineering and agricultural technology to submit their scientific papers.

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PREFACE

With gratitude to Allah the Almighty, Jurnal Teknik Pertanian Lampung (J-TEP) Volume 13, No. 1, March 2024 can finally be published. This edition contains 29 (twenty nine) papers from various fields of study in the world of Agricultural Engineering and Agricultural Technology including cultivation engineering, bioprocess technology, wood engineering, design, modeling, renewable energy, and others.

On this occasion, we would like to express our deepest gratitude to the authors for their contribution to J-TEP and to the reviewers of this journal for their participation and contribution in improving the quality of scientific papers published in this edition. Finally, I hope that J-TEP can be useful for the community and make a meaningful contribution to the development of science and technology, especially in the field of agricultural engineering and technology.

Editors

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PEDOMAN PENULISAN ARTIKEL BAGI PENULIS

- 1) **Naskah:** Redaksi menerima sumbangan naskah/tulisan ilmiah dalam bahasa Indonesia atau bahasa Inggris, dengan batasan sebagai berikut :
 - a. Naskah diketik pada kertas ukuran A4 (210mm x 297mm) dengan 2 spasi dan ukuran huruf Times New Roman 12pt. Jarak tepi kiri, kanan, atas, dan bawah masing-masing 3 cm. Panjang naskah tidak melebihi 20 halaman termasuk abstrak, daftar pustaka, tabel dan gambar. **Semua tabel dan gambar disisipkan dalam naskah** dengan penomoran sesuai dengan yang tertera dalam naskah. Naskah disusun dengan urutan sebagai berikut: Judul; Nama Penulis disertai dengan catatan kaki tentang instansi tempat bekerja; Pendahuluan; Bahan dan Metode; Hasil dan Pembahasan; Kesimpulan dan Saran; Daftar Pustaka; serta Lampiran jika diperlukan. Template penulisan dapat didownload di <http://jurnal.fp.unila.ac.id/index.php/JTP>
 - b. **Abstrak (Abstract)** dalam bahasa Indonesia dan bahasa Inggris, tidak lebih dari 200 kata. Mengandung informasi yang tertuang dalam penulisan dan mudah untuk dipahami. Ringkasan (abstract) harus memuat secara singkat latar belakang, tujuan, metode, serta kesimpulan dan yang merupakan *high light* hasil penelitian.
 - c. **Pendahuluan:** memuat latar belakang masalah yang mendorong dilaksanakannya perekayasaan dan penelitian, sitasi dari temuan-temuan terdahulu yang berkaitan dan relevan, serta tujuan perekayasaan atau penelitian.
 - d. **Bahan dan Metode:** secara jelas menerangkan bahan dan metodologi yang digunakan dalam perekayasaan atau penelitian berikut dengan lokasi dan waktu pelaksanaan, serta analisis statistik yang digunakan. Rujukan diberikan kepada metoda yang spesifik.
 - e. **Hasil dan Pembahasan:** Memuat hasil-hasil perekayasaan atau penelitian yang diperoleh dan kaitannya dengan bagaimana hasil tersebut dapat memecahkan masalah serta implikasinya. Persamaan dan perbedaannya dengan hasil perekayasaan atau penelitian terdahulu serta prospek pengembangannya. Hasil dapat disajikan dengan menampilkan gambar, grafik, ataupun tabel.
 - f. **Kesimpulan dan Saran:** memuat hal-hal penting dari hasil penelitian dan kontribusinya untuk mengatasi masalah serta saran yang diperlukan untuk arah perekayasaan dan penelitian lebih lanjut.
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