

# **PENGEMBANGAN MEDIA *ECO-MIND* BERBASIS TEORI SIBERNETIK PADA MATERI IPAS EKOSISTEM YANG HARMONIS KELAS V DI SD NEGERI 1 PENATIH TAHUN PELAJARAN 2025/2026**

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## **ABSTRAK**

Penelitian ini bertujuan (1) untuk mengetahui rancang bangun media *Eco-Mind* berbasis Teori Siberetik pada materi Harmoni dalam Ekosistem di kelas V SD Negeri 1 Penatih, (2) Kelayakan media *Eco-Mind* berdasarkan uji ahli isi, uji ahli desain instruksional, uji ahli media, uji perorangan, dan uji kelompok kecil siswa kelas V SD Negeri 1 Penatih, dan (3) Efektivitas media *Eco-Mind* pada materi Harmoni dalam Ekosistem siswa kelas V SD Negeri 1 Penatih. Pengumpulan data menggunakan metode kuesioner dan tes. Teknik analisis data meliputi analisis deskriptif kuantitatif, kualitatif, dan analisis statistik inferensial. Hasil penelitian menunjukkan bahwa: (1) rancang bangun media *Eco-Mind* dikembangkan menggunakan model ADDIE (analisis, perancangan, pengembangan, implementasi, evaluasi) dengan persentase penilaian ahli rancang bangun 88,67% (baik); (2) media *Eco-Mind* dinyatakan layak berdasarkan penilaian: ahli isi 84,61% (baik), ahli desain instruksional 93,33% (sangat baik), ahli media 93,75% (sangat baik), uji coba perorangan 91,6% (sangat baik), dan uji coba kelompok kecil 96% (sangat baik); (3) uji efektivitas dengan uji-t-dependent menunjukkan  $t\text{-hitung} = 15,47 > t\text{-tabel} (\approx 2,04)$  sehingga  $H_0$  ditolak dan  $H_1$  diterima, yang berarti terdapat perbedaan hasil belajar antara sebelum dan setelah penggunaan media *Eco-Mind*. Berdasarkan hasil tersebut, dapat disimpulkan bahwa media *Eco-Mind* berbasis Teori Siberetik efektif digunakan untuk meningkatkan hasil belajar IPAS materi *Harmoni dalam Ekosistem* pada siswa kelas V SD Negeri 1 Penatih tahun pelajaran 2025/2026.

Kata kunci: *Eco-Mind*, Teori Siberetik, Ekosistem

**DEVELOPMENT OF ECO-MIND MEDIA BASED ON  
CYBERNETIC THEORY ON THE TOPIC OF  
HARMONIOUS ECOSYSTEM IN IPAS FOR GRADE V  
AT SD NEGERI 1 PENATIH ACADEMIC YEAR  
2025/2026**

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**ABSTRACT**

*This study aims (1) to determine the design and development of Eco-Mind media based on Cybernetic Theory on the topic Harmony in Ecosystems for fifth-grade students of SD Negeri 1 Penatih, (2) to determine the feasibility of Eco-Mind media based on content expert review, instructional design expert review, media expert review, individual trials, and small group trials involving fifth-grade students of SD Negeri 1 Penatih, and (3) to determine the effectiveness of Eco-Mind media on the topic Harmony in Ecosystems for fifth-grade students of SD Negeri 1 Penatih. Data were collected using questionnaires and tests. The data analysis techniques included quantitative descriptive analysis, qualitative descriptive analysis, and inferential statistical analysis. The results of the study indicate that: (1) the Eco-Mind media was developed using the ADDIE model (Analysis, Design, Development, Implementation, and Evaluation) with a design expert evaluation score of 88.67% (good); (2) the Eco-Mind media was declared feasible based on the evaluations of content experts 84.61% (good), instructional design experts 93.33% (very good), media experts 93.75% (very good), individual trials 91.6% (very good), and small group trials 96% (very good); (3) the effectiveness test using a dependent t-test showed that  $t\text{-count} = 15.47 > t\text{-table} (\approx 2.04)$ , thus  $H_0$  was rejected and  $H_1$  was accepted, indicating a significant difference in learning outcomes before and after the use of Eco-Mind media. Based on these findings, it can be concluded that the Eco-Mind media based on Cybernetic Theory is effective in improving IPAS learning outcomes on the topic Harmony in Ecosystems for fifth-grade students of SD Negeri 1 Penatih in the 2025/2026 academic year.*

**Keywords:** *Eco-Mind, Cybernetic Theory, Ecosystem*