

Wilda Nur Mei Syahrina 2026. Pengaruh Model *Flipped classroom* terhadap hasil belajar Siswa pada materi TCP/IP berbantuan *Teachmint*. Skripsi, Program Studi Guruan Informatika, Fakultas Keguruan dan Ilmu Guruan, Universitas Trunodjoyo Madura. Dosen Pembimbing: Puji Rahayu Ningsih, S.Pd., M.Pd.

ABSTRAK

Penelitian ini bertujuan untuk mengetahui pengaruh model pembelajaran *Flipped classroom* berbantuan aplikasi *Teachmint* terhadap hasil belajar Siswa pada materi TCP/IP, mengetahui keterlaksanaan pembelajaran, serta mengetahui respon siswa terhadap penerapan model tersebut. Penelitian menggunakan pendekatan kuantitatif dengan desain *Nonequivalent Kontrol Group Design*. Subjek penelitian adalah murid kelas X Rekayasa Perangkat Lunak (RPL) SMK Semen Gresik yang terdiri atas kelas eksperimen dan kelas kontrol. Teknik pengumpulan data meliputi tes hasil belajar, observasi aktivitas guru dan Siswa, serta angket respon Siswa. Analisis data dilakukan melalui uji normalitas, uji homogenitas, uji linearitas, regresi linear sederhana, uji hipotesis (uji-t), dan uji *gain*. Hasil penelitian menunjukkan bahwa penerapan model *Flipped classroom* berbantuan *Teachmint* berpengaruh positif terhadap hasil belajar Siswa. Hasil uji hipotesis pada uji signifikan memperoleh t_{hitung} senilai 1,780 dan t_{tabel} senilai 1,690. Dari kedua nilai tersebut diperoleh keputusan bahwa $t_{hitung} > t_{tabel}$ sehingga H_a diterima. Hasil uji *gain* sebesar 0,598 menunjukkan adanya peningkatan hasil belajar pada kategori sedang. Keterlaksanaan pembelajaran tergolong baik dengan rata-rata aktivitas guru sebesar 80% dan aktivitas Siswa sebesar 77,9%. Selain itu, respon Siswa terhadap pembelajaran memperoleh persentase sebesar 83,13% dengan kategori sangat baik. Dengan demikian, model pembelajaran *Flipped classroom* berbantuan *Teachmint* efektif diterapkan untuk meningkatkan hasil belajar Siswa pada materi TCP/IP.

Kata kunci: *Flipped classroom*, *Teachmint*, hasil belajar, *TCP/IP*.

Wilda Nur Mei Syahrina 2026. The Effect of the Flipped Classroom Model Assisted by Teachmint on Student Learning Outcomes regarding TCP/IP Material. Undergraduate Thesis, Informatics Education Study Program, Faculty of Teacher Training and Education, University of Trunojoyo Madura. Supervisor: Puji Rahayu Ningsih, S.Pd., M.Pd.

ABSTRACT

This study aims to determine the effect of the Flipped classroom learning model assisted by the Teachmint application on student learning outcomes regarding TCP/IP material, as well as to assess the implementation of the learning process and student responses to the model's application. The study employed a quantitative approach using a Nonequivalent Kontrol Group Design. The research subjects were 10th-grade students from the Software Engineering (RPL) program at SMK Semen Gresik, divided into experimental and kontrol groups. Data collection techniques included learning outcome tests, observations of teacher and student activities, and student response questionnaires. Data analysis was conducted using normality, homogeneity, and linearity tests, simple linear regression, hypothesis testing (t-test), and gain score analysis. The results indicate that the application of the Teachmint -assisted Flipped classroom model had a positive effect on student learning outcomes. Hypothesis testing yielded a t-count of 1.780 and a t-table of 1.690; since $t\text{-count} > t\text{-table}$, the alternative hypothesis (H_a) was accepted. The gain score of 0.598 indicates an improvement in learning outcomes within the moderate category. The implementation of the learning process was rated as good, with average activity rates of 80% for teachers and 77.9% for students. Furthermore, student response to the learning process achieved a score of 83.13%, falling into the "very good" category. Thus, the Teachmint -assisted Flipped classroom model is effective for improving student learning outcomes regarding TCP/IP material.

Keywords: *Flipped classroom, Teachmint, learning outcomes, TCP/IP.*