

## ABSTRAK

Sudariana, I Kadek Oka (2023). Pengaruh Model Pembelajaran *Flipped Classroom* Tipe *Peer Instruction* Berbantuan e-LKPD terhadap Kemampuan Komunikasi dan Kemampuan Disposisi Matematika Peserta Didik kelas XI IPA Semester Genap SMA Negeri 8 Denpasar Tahun Pelajaran 2022/2023.

Tesis ini sudah diperiksa dan disetujui oleh Pembimbing I: Prof. Dr. I Made Candiasa, M.I.Kom dan Pembimbing II: Dr. Ni Made Sri Mertasari, M.Pd.

Kata kunci: komunikasi matematika, disposisi matematika, model pembelajaran *flipped classroom* tipe *peer instruction*, e-LKPD.

Penelitian ini bertujuan untuk mendeskripsikan pengaruh model pembelajaran *flipped classroom* tipe *peer instruction* berbantuan e-LKPD terhadap kemampuan komunikasi dan disposisi matematika peserta didik kelas XI IPA. Jenis penelitian ini adalah kuasi eksperimen dengan desain *post test control group design*. Populasi penelitian ini sebanyak 387 orang peserta didik kelas XI IPA di SMA Negeri 8 Denpasar tahun pelajaran 2022/2023. Sampel penelitian sebanyak 144 orang yang ditentukan dengan teknik *random sampling*. Teknik pengumpulan data pada penelitian ini menggunakan teknik tes dan non tes. Instrumen yang digunakan untuk mengukur kemampuan komunikasi matematika peserta didik adalah berupa tes uraian sedangkan untuk mengukur kemampuan disposisi matematika peserta didik digunakan kuisioner kemudian dianalisis dengan uji hipotesis *Multivariate Analysis of Variance* (MANOVA) dengan taraf signifikansi 5%. Sebelum uji hipotesis, dilakukan uji asumsi (normalitas sebaran data, homogenitas varian, homogenitas matrik varian-kovarian, dan multikolinieritas antar variabel terikat). Hasil analisis data menunjukkan bahwa nilai F dari uji *wilks lambda* sebesar 8,317, dengan nilai signifikansi 0,000 lebih kecil dari 0,05. Maka dapat disimpulkan bahwa “hipotesis diterima” artinya terdapat pengaruh dan perbedaan hasil yang signifikan kemampuan komunikasi dan kemampuan disposisi matematika peserta didik terhadap model pembelajaran *flipped classroom* tipe *peer instruction* berbantuan e-LKPD.

UNDIKSHA

## ABSTRACT

Sudariana, I Kadek Oka (2023). The effect of the Flipped Classroom learning model type Peer Instruction assisted by e-LKPD on the communication skills and mathematical disposition abilities of students in class XI IPA even semester at SMA Negeri 8 Denpasar in the academic year 2022/2023

This thesis has been supervised and approved by Supervisor I: Prof. Dr. I Made Candiasa, MI.Kom and Supervisor II: Dr. Ni Made Sri Mertasari, M.Pd.

Keywords: mathematical communication, mathematical disposition, *flipped classroom learning* model of *peer instruction* type, e-LKPD

This study aims to describe the effect of the flipped classroom learning model type peer instruction assisted by e-LKPD on the communication skills and mathematical dispositions of students in class XI IPA. This type of research is quasi-experimental with a post test control group design. The population of this study was 387 students in class XI IPA at SMA Negeri 8 Denpasar for the 2022/2023 academic year. The research sample was 144 people who were determined by random sampling technique. Data collection techniques in this study used test and non-test techniques. The instrument used to measure students' mathematical communication abilities was in the form of a description test, while a questionnaire was used to measure students' mathematical disposition abilities and then analyzed by testing the Multivariate Analysis of Variance (MANOVA) hypothesis with a significance level of 5%. Before testing the hypothesis, an assumption test was carried out (normality of data distribution, homogeneity of variance, homogeneity of the variance-covariance matrix, and multicollinearity between the dependent variables). The results of the data analysis show that the F value of the Wilks lambda test is 8.317, with a significance value of 0.000 which is less than 0.05. So it can be concluded that "the hypothesis is accepted" means that there is significant influence and difference in the results of communication skills and mathematical disposition abilities of students towards the flipped classroom learning model type peer instruction assisted by e-LKPD.