

**PERBANDINGAN KETERAMPILAN KOMUNIKASI DAN
KEMAMPUAN PENGUASAAN KONSEP SISWA MELALUI
PEMBELAJARAN VIRTUAL MENGGUNAKAN GOOGLE
CLASSROOM DAN PEMBELAJARAN MENGGUNAKAN WHATSAPP**

SKRIPSI

diajukan untuk memenuhi sebagian syarat mendapatkan gelar Sarjana Pendidikan
Program Studi Pendidikan Biologi



oleh

Navisha Armya Hazqil

1600728

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UNIVERSITAS PENDIDIKAN INDONESIA
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Navisha Armya Hazqil, 2020

*PERBANDINGAN KETERAMPILAN KOMUNIKASI DAN KEMAMPUAN PENGUASAAN KONSEP SISWA
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Oleh :

Navisha Armya Hazqil

Sebuah skripsi yang di ajukan untuk memenuhi salah satu syarat dalam memperoleh gelar sarjana pendidikan pada Program Studi Pendidikan Biologi

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LEMBAR PENGESAHAN
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Oleh

Navisha Armya Hazqil

NIM. 1600728

Disetujui dan di sahkan oleh :

Dosen Pembimbing I



Dr. H. Riandi, M. Si.

NIP. 196305011988031002

Dosen Pembimbing II



Drs. Suhara, M. Pd.

NIP. 196512271991031003

Mengetahui,

Ketua Prodi Pendidikan Biologi FPMIPA UPI



Drs. Amprasto, M. Si.

NIP. 196607161991011001

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**PERBANDINGAN KETERAMPILAN KOMUNIKASI DAN KEMAMPUAN
PENGUASAAN KONSEP SISWA MELALUI PEMBELAJARAN VIRTUAL
MENGUNAKAN GOOGLE CLASSROOM DAN PEMBELAJARAN
MENGUNAKAN WHATSAPP**

ABSTRAK

Tujuan dari penelitian ini yaitu menganalisis keterampilan komunikasi abad – 21 melalui pembelajaran virtual menggunakan *Google Classroom* dan pembelajaran virtual menggunakan *Whatsapp*. Partisipan penelitian terdiri atas kelas *Google Classroom* sebanyak satu kelas dan kelas *Whatsapp* sebanyak satu kelas. Keterampilan komunikasi dianalisis menggunakan rubrik yang mengacu kepada indikator keterampilan komunikasi abad – 21 berdasarkan *K – 12 Public Education*. Pengumpulan data keterampilan komunikasi siswa berupa catatan rekaman dari kegiatan pembelajaran ketika siswa belajar melalui aplikasi *Google Classroom* maupun siswa yang belajar melalui aplikasi *Whatsapp*. Adapun, pengumpulan data kemampuan penguasaan konsep siswa berupa hasil *pretest* dan *posttest* dari soal *multiple choice* mengenai permasalahan lingkungan .Berdasarkan hasil rata – rata perhitungan statistika uji T beda rata - rata, siswa yang belajar dengan aplikasi *Google Classroom* memperoleh skor rata – rata keterampilan komunikasi yang lebih tinggi dibandingkan dengan pembelajaran menggunakan aplikasi *Whatsapp* yaitu 62,86 sedangkan skor rata – rata keterampilan komunikasi kelas *Whatsapp* yaitu 58,18. Hasil statistika uji *Mann - Whitney* mengenai kemampuan penguasaan konsep menunjukkan bahwa tidak terdapat perbedaan yang signifikan antara siswa yang belajar menggunakan aplikasi *Google Classroom* dengan siswa yang belajar menggunakan aplikasi *Whatsapp*. Hal ini berarti aplikasi *Google Classroom* hanya mampu mengembangkan dan membangkitkan siswa dalam berkomunikasi, serta membangun keterampilan komunikasi abad – 21.

Kata kunci : Pendidikan, Keterampilan Abad – 21, Kelas Virtual, *Google Classroom*, *WhatsApp*, Permasalahan Lingkungan

**COMPARISON COMMUNICATION SKILLS AND COGNITIVE ABILITY OF
HIGH SCHOOL STUDENT BETWEEN VIRTUAL LEARNING USING
GOOGLE CLASSROOM AND BY LEARNING USING WHATSAPP**

ABSTRACT

This study aims to analyze the communication skills of High School student between learning environmental material using Google Classroom and by learning using WhatsApp. The participant in this study were student of SMAN 11 Bandung with X MIPA 1 using Google Classroom application and X MIPA 4 using learning by WhatsApp application. The communication skills were analyzed based on K – 12 Public Education 21st century skills and the ability of cognitive based on bloom taxonomy. The data was collected communication by observing and documentaring from student activities using Google Classroom application and using WhatsApp application, and for collected cogtinif data by pretest and posttest about environmental material. The result of this study obtained the communication skills of student's there is a significant difference between using Google Classroom and by learning using WhatsApp based on statistic T test. The result ability cogtinif of student's not is a significant difference between using Google Classroom and by learning using WhatsApp based on statistic Mann – Whitney Test. This means that the Google Classroom application is only able to develop and awaken students in communication skills, and build 21st century communication skills.

Keywords : Education, 21st Century Communication Skills, Virtual Classroom, Google Classroom, Whatsapp, Environmental Damage

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