

**TPACK (*TECHNOLOGICAL PEDAGOGICAL AND CONTENT KNOWLEDGE*) GURU
BIOLOGI DALAM PEMBELAJARAN YANG DAPAT MENGAKOMODASI
TUNTUTAN KETERAMPILAN ABAD 21**

TESIS

diajukan Sebagai Salah Satu Syarat Untuk Mendapatkan Gelar Magister
Pada Program Studi Pendidikan Biologi



Oleh

Handi Suganda
NIM. 1707109

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DAPAT MENGAKOMODASI KETERAMPILAN ABAD 21**

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TPACK (*TECHNOLOGICAL PEDAGOGICAL AND CONTENT KNOWLEDGE*) GURU BIOLOGI DALAM PEMBELAJARAN YANG DAPAT MENGAKOMODASI TUNTUTAN KETERAMPILAN ABAD 21

Oleh:

HANDI SUGANDA

S.Pd. Universitas Pasundan, 2016

Sebuah tesis yang diajukan untuk memenuhi salah satu syarat memperoleh gelar Magister Pendidikan (M.Pd.) pada Sekolah Pascasarjana

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LEMBAR PENGESAHAN

HANDI SUGANDA
NIM 1707109

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KNOWLEDGE) GURU BIOLOGI DALAM PEMBELAJARAN YANG
DAPAT MENGAKOMODASI TUNTUTAN KETERAMPILAN ABAD 21**

Disetujui dan disahkan oleh pembimbing:

Pembimbing I



Dr. Riandi, M.Si
NIP. 196305011988031002

Pembimbing II



Dr. Widi Purwianingsih, M.Si
NIP. 196209211991012001

Mengetahui,

Ketua Program Studi Pendidikan Biologi



Dr. Bambang Supriatno, M.Si
NIP. 196305211988031002

TPACK (TECHNOLOGICAL PEDAGOGICAL AND CONTENT KNOWLEDGE) GURU DALAM PEMBELAJARAN YANG DAPAT MENGAKOMODASI KETERAMPILAN ABAD 21

Handi Suganda

handisuganda94@gmail.com

Abstrak

Penelitian ini bertujuan untuk mendeskripsikan kemampuan TPACK guru biologi di dalam pembelajaran yang dapat mengakomodasi tuntutan keterampilan abad 21. Metode penelitian yang digunakan adalah penelitian deskriptif. Partisipan penelitian diambil dengan menggunakan teknik *convenience sampling*. Partisipan penelitian di dalam penelitian berjumlah lima guru dengan cakupan materi berbeda yang terdiri dari guru yang mengajar di kelas X, XI dan XII. TPACK guru biologi diidentifikasi berdasarkan CoRes, RPP dan *Pap-eRs* yang ditunjang dengan angket persepsi dan pertimbangan pembelajaran abad 21. Hasil penelitian menunjukkan bahwa TPACK guru biologi dalam mengakomodasi keterampilan abad 21 sebelum pembelajaran berada pada kategori *growing* 20% dan 80% berada pada kategori *pra* TPACK. Setelah proses refleksi pembelajaran yaitu 40% guru berada pada kategori *growing* dan 60% guru berada pada kategori *pra* TPACK. Hasil penilaian kesesuaian CoRes dengan RPP sebelum pembelajaran memiliki persentase skor sebesar 53,34% dan setelah pembelajaran sebesar 71,11%. Secara umum guru telah memiliki persepsi dan pertimbangan pembelajaran yang telah sangat baik. Guru membutuhkan pelatihan pembelajaran lanjutan terutama pada aspek teknologi pembelajaran pada guru dengan rentang pengalaman mengajar lebih dari 10 tahun.

Kata Kunci: Keterampilan Abad 21, TPACK, *Convenience Sampling*, Teknologi

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TPACK (TECHNOLOGICAL PEDAGOGICAL AND CONTENT KNOWLEDGE) TEACHERS IN LEARNING CAN ACCOMMODATE THE 21ST CENTURY SKILLS

Handi Suganda

handisuganda94@gmail.com

Abstrak

This study aims to describe the ability of TPACK biology teachers in learning that can accommodate the demands of 21st-century skills. The research method used is descriptive research. Research participants were taken used a convenience sampling technique. The participants in this study amounted to five teachers with a range of different material consisting of teachers who taught classes X, XI, and XII. Biology teacher TPACK was identified based on CoRes, RPPs, and Pap-eRs which were supported by questionnaire perception and consideration of 21st-century learning. The results showed that TPACK biology teacher in accommodating 21st-century skills before learning in growing category of 20% and 80% were in the pre category TPACK. After the learning reflection process, 40% of teachers are in growing category and 60% of teachers are in the pre-TPACK category. The results of the conformity assessment of CoRes with RPP before learning had a percentage score of 53.34% and after learning amounted to 71.11%. In general, teachers already have perceptions and considerations of learning that have been very good. Teachers need advanced learning training especially on aspects of learning technology in teachers with a teaching experience span of more than 10 years.

Keyword: 21st century skill, TPACK, *Convenience Sampling*, Technology

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