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HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH : JURNAL ILMIAH**

Judul Karya Ilmiah (Artikel): The Correlation between the Intrinsic and Extrinsic Molecular Markers in the Inhibition of the Lungs Carcinogenesis Growth by Mahkota Dewa Polyphenols on Balb/c Mouse

Jumlah Penulis : 5 orang

Status Pengusul : Theopilus Watuguly, **Kustarini Samsuria Indranila**, Suharyo Hadisaputro, Edi Dharmana, Lyle E Craker

Identitas Jurnal Ilmiah : a. Nama Jurnal : Open Journal of Applied Sciences
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h. Alamat web jurnal : https://www.scirp.org/html/1-2311190_100630.htm
i. Terindeks di : COPERNICUS
j. On line turnitin : https://doc-pak.undip.ac.id/4962/1/Turnitin_The_Correlation_between_the_Intrinsic.pdf

Kategori Publikasi Jurnal Ilmiah : Jurnal Ilmiah Internasional / Internasional Bereputasi **
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- Ruang lingkup dan kedalaman pembahasan** : Ruang lingkup keilmuan sesuai pengusul. Pembahasan cukup baik dan dibandingkan dengan penelitian2 sebelumnya serta teori dengan referensi yang cukup sesuai.
- Kecukupan dan kemutahiran data/informasi dan metodologi**: Penelitian eksperimental dengan post test only control group design pada hewan coba. Data dikumpulkan dengan teknologi yang terstandar baik. Teknik analisis menggunakan uji beda dan uji korelasi serta dianalisis dan disajikan dengan baik
- Kelengkapan unsur dan kualitas terbitan/ jurnal**: Jurnal internasional terindex di WoS

Semarang,
Reviewer 1



Prof. Dr. dr. Tri Nur Kristina, DMM, M.Kes
NIP. 19590527 198603 2 001
Unit kerja : Fakultas Kedokteran Undip
Bidang Ilmu : Ilmu Kedokteran
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Judul Jurnal Ilmiah (Artikel) : The Correlation between the Intrinsic and Extrinsic Molecular Markers in the Inhibition of the Lungs Carcinogenesis Growth by Mahkota Dewa Polyphenols on Balb/c Mouse

Jumlah Penulis : 4 orang

Status Pengusul : Theopilus Watuguly, Kustarini Samsuria Indranila, Suharyo Hadisaputro, Edi Dharmana, Lyle E Craker

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Nilai Total = (100%)		20		 16,8
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- a. Kelengkapan unsur isi artikel : abstrak lengkap, Pendahuluan, metode, hasil pembahasan, kesimpulan, diskusi, sesuai kaidah penulisan ilmiah, Daftar pustaka & Analisis sistem penulisan, Campuran Harvard dan Vancouver, rangkai semua pustaka (20%) > 10 tahun.
- b. Ruang lingkup dan kedalaman pembahasan : ruang lingkup pembahasan, sesuai dengan bidang ilmu pengusul. Pembahasan luas dan dalam, dan dibandingkan dengan penelitian - penelitian terdahulu.
- c. Kecukupan dan kemutakhiran data/informasi dan metodologi : Penelitian eksperimental dengan fileus sebagai hewan coba, data primer & proses dan diurai secara numeris histokimia yang terstandar.
- d. Kelengkapan unsur dan berkualitas terbitan/ jurnal : Jurnal internasional - web science

Semarang, 12 September 2020

Reviewer 2

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Unit kerja: Fakultas Kedokteran Undip

Bidang ilmu : Ilmu Kedokteran

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The Correlation between the Intrinsic and Extrinsic Molecular Markers in the Inhibition of the Lungs Carcinogenesis Growth by Mahkota Dewa Polyphenols on Balb/c Mouse

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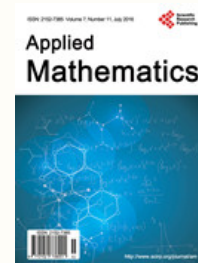
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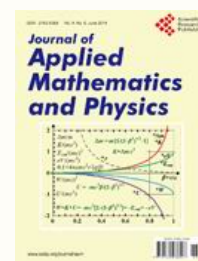
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Technology Embedding of Classroom Teaching: Types, Issues and Responses

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Abstract

As the new demands on curriculum teaching in the information age, the application of various technologies is profoundly affecting classroom teaching today. The technology-embedded classroom approach includes technology-assisted teaching, technology-integrated teaching, and technology-based teaching. There are still some deficiencies in the technological embedding of course teaching, the technological presentation of knowledge destroys the ecosystem of classroom, the technological controlled teaching hinders the development of teacher-student relationship, and the value orientation under technological efficiency neglects the integrated development of students. It is recommended to develop an ecological view of technological development, a pedagogical system focused on teacher-student interaction and an evaluation system with a multi-valued orientation.

Keywords

Types, Issues, Responses, Top-Level Design, Problem Solving, Pluralistic Value

1. Types of Technology-Embedded Teaching

Classroom teaching in the information age emphasizes students as the subject, the learning process as the carrier and the cultivation of students' abilities as the focus, and is a bilateral teaching activity in which teachers and students make full use of various teaching resources. However, when technology entered the classroom, it reconstructed the original classroom teaching system due to the self-organizing nature of technology. In recent years, due to teachers' different perceptions of technology-embedded teaching, various types of course teaching under technical support have formed; the teaching of technology-embedded classroom includes technology-assisted teaching, technology-integrated teaching and

Renewable Energy Potential of Sewage in Zambia

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Abstract

This study was aimed at investigating the renewable energy potential of communal and municipal wastewater through methane production in biogas digesters and the use of the captured methane for energy production in biogas engines. It was conducted on biogas digesters receiving and pre-treating communal and municipal wastewater in the Zambian city of Livingstone. Wastewater inflow rates into biogas units including the wastewater turbidity, total dissolved solids (TDS), temperature, pH, conductivity and Chemical Oxygen Demand (COD) were measured during the study. And all the produced biogas was measured and combusted on-site during the course of the research. In order to know the methane content of the gas, the CO₂ content in the biogas was measured with a CO₂ indicator. The study showed that the predominant factor affecting the process of methane production from wastewater to the greatest extent is the COD concentration of the inflowing wastewater and not the system hydraulic retention times (HRT's). The COD treatment levels of the tested systems ranged between 27 and 86 percent and the degree of breakdown primarily depended on the COD concentration of the influent wastewater. On renewable energy fuel production, about 3.54 kilograms of COD in each system produced a kilogram of methane. Communal wastewater was able to produce an average of 600 grams of methane per cubic meter of wastewater treated whilst municipal wastewater with less COD concentration was only able to produce about 64.5 grams of methane per cubic meter wastewater treated. With the use of a 45 kw Cummins 6 BT biogas engine, the respective wastewaters had potential to produce about 2.6 kWh and 0.1 kWh of electric energy per cubic meter of wastewater treated at a levelized cost of USD 9 cents per kilowatt-hour. Temperature also showed that it has significant effect on methane production as a degree temperature rise in the anaerobic system increased the methane production mass rate by 1.2 percent.