16755-62589-1-CE-KD.doc

by 16755-62589-1-ce-kd.doc 16755-62589-1-ce-kd.doc

Submission date: 21-Mar-2025 12:28PM (UTC+0700)

Submission ID: 2620792140

File name: 16755-62589-1-CE-KD.doc (2.02M)

Word count: 4634 Character count: 31685



TADRIS: JURNAL KEGURUAN DAN ILMU TARBIYAH

(Tadris: Journal of Education and Teacher Training)
P-ISSN: 2301-7562 | E-ISSN: 2579-7964
ejournal.radenintan.ac.id/index.php/tadris/index

Mapping TPACK Components in Implementing Edupreneur-Profiled Curriculum at Teacher Training and Education Institutions in Aceh

Lailatussaadah¹*, Salma Hayati ², Asyraf Isyraqi Bin Jamil³, Fakhrul Adabi Bin Abdul Kadir⁴

^{1.2} Faculty of Education and Teacher Training, Universitas Islam Negeri Ar-Raniry Banda Aceh, Indonesia
^{3,4} University of Malaya

Article History:
Received: xxxx xx, 20xx
Revised: xxxx xx, 20xx
Accepted: xxxx xx, 20xx
Published: xxxx xx, 20xx

Keywords:

Edupreneur, Teacher training, TPACK

*Correspondence Address:

Abstract: This research aims to explore the mapping of Technological Pedagogical Content Knowledge (TPACK) components of instructors in implementing the Edupreneur-profiled curriculum in Islamic Higher Education Institutions (PTKI) in Aceh. The researchers employed interview methods, observations, and document reviews involving three heads of study programs and six instructors from three PTKIs (Islamic Higher Education Institutions) in Aceh, namely UIN Ar-Raniry, IAIN Lhokseumawe, and STAIN Teungku Dirundang Meulaboh. The data analysis was conducted interactively. Instructors teaching Edupreneurship-profiled courses have successfully integrated Content Knowledge (CK), Pedagogical Knowledge (PK), Technological Knowledge (TK), Pedagogical Content Knowledge (PCK), Technological Pedagogical Knowledge (TCK), and Technological Content Knowledge (TPK) as components of TPACK in their teaching practices. This research contributes to mapping these components, thereby aiding instructors in effectively implementing the entrepreneurship-profiled curriculum. In conclusion, this research provides valuable insights into the effectiveness of Open Educational Resources (OER) on creative thinking within the context of science subjects, filling a notable gap in the existing literature and offering a foundation for further exploration in educational practices

INTRODUCTION

As a pivotal academic subject, entrepreneurship has garnered significant attention within higher education institutions. The focus on entrepreneurship aims to produce graduates who are better prepared to become job creators (Azwar, 2019). Moreover, this approach is anticipated to offer solutions to the escalating issue of unemployment in Indonesia (Marwanti et al., 2012; Sinaulan, 2019; Wijayanto & Ode, 2019). Nonetheless, research also highlights a disconcerting observation: the

higher the level of education an individual attains, the lower their level of independence and entrepreneurial spirit (Ariska & Sahid, 2022; Siswoyo, 2009). Furthermore, the achievements of higher education are not entirely aligned with industry expectations (Wiratno, 2012).

Implementing entrepreneurship education in higher education institutions faces substantial challenges, notably regarding financial constraints and human resources (Adnan et al., 2020). Previous studies have demonstrated that incorporating entrepreneurship education

© 2018 URPI Faculty of Education and Teacher Training Universitas Islam Negeri Raden Intan Lampung at the tertiary level and cultivating a positive environment within the educational system can yield positive impacts, particularly in fostering an entrepreneurial culture and spirit (Bazan et al., 2020; Ciputra, 2007; Lailatussaadah et al., 2020; Sentoso, 2012; Subandi, 2015; Zubaedi, 2015).

To achieve these goals the presence faculty possessing Technological Pedagogical Content Knowledge (TPACK) is paramount. TEACK is a learning model derived from Pedagogical Content Knowledge (PCK), initially formulated by Shulman. TPACK integrates knowledge from four primary components: pedagogical expertise, subject matter, student characteristics, and the contextual environment (Malik et al., 2019). This model introduces a technological dimension integrated with PCK, forming a framework synthesizing content, pedagogy, and technology knowledge.



Figure 1. TPACK Framework Illustration (Koehler et al., 2013); Depicting the Interplay of Technological Knowledge, Content, and Pedagogical Approaches.

In the context of entrepreneurshipfocused coursework, the role of TPACKequipped educators becomes pivotal in facilitating comprehensive knowledge absorption among students. Prior research has revealed that TPACK significantly influences the development of instructional materials (Sholihah et al., 2016). Other findings indicate a positive correlation between the instructional strategies of educators and their TPACK in preservice teaching (Baran et al., 2019). Additional studies have underscored the positive impact of TPACK development, employing mobile devices for tailored student learning needs (Hossain et al., 2019).

While these studies contribute valuably, an in-depth investigation into the mapping of faculty TPACK within the context of Edupreneurial rofile curricula, particularly within Islamic higher education institutions, remains absent. This study seeks to delve deeper into the effective TPACK formulation for implementing Edupreneurial profile curricula in state Islamic higher education institutions on the Aceh region. Empirical data from state Islamic higher education institutions in Aceh reveals the presence of entrepreneurship and Edupreneurial courses aimed at enabling students to master the procedure of identifying diverse entrepreneurial endeavors grounded in innovation and self-reliance, guided by Islamic values and principles, as well as local, national, and global perspectives.

Based on theoretical insights and empirical findings, this study endeavors to formulate an effective faculty TPACK model for executing Edupreneurial profile curricula in educational institutions and educational personnel and state Islamic higher education institutions Aceh.

METHOD

This study employs a qualitative descriptive approach to comprehensively investigate information regarding the research subjects, namely instructors who teach courses with an Edupreneurial profile (Creswell, 2009). The research is conducted across three institutions in Aceh. The research subjects are purposively selected, involving 15

instructors who teach Edupreneurialprofiled curriculum within educational institutions, educational staff, and state Islamic universities.

The collected data is analyzed using a qualitative analysis approach. This approach adopts the theory proposed by (Miles et al., 2014) and encompasses a series of stages, including data collection, reduction, presentation, and conclusion.

Firstly, data collection is conducted through interviews, observations, and documentation aligned with the research problem's focus. The data collected during this phase is the initial step in the qualitative analysis process.

Secondly, the data reduction phase involves sorting, grouping, and categorizing relevant data while eliminating irrelevant data. This step aims to organize the data to align with the research's focal points.

Thirdly, the reduced data is coherently presented according to the research's focus. This presentation entails structuring data in a more organized and clearer format to ensure the information is well understood.

Lastly, the conclusion-drawing stage aims to extract meaning from the obtained data and elucidate the findings that arise from the data. The ultimate objective of this stage is to formulate accurate and pertinent conclusions aligned with the research's goals.

Hence, this qualitative analysis approach is utilized to comprehend the TPACK mapping of the instructors in implementing an Edupreneurial-profiled curriculum within educational institutions, educational staff, and state Islamic universities in Aceh.

RESULT AND DISCUSSION

Each program of study at the three research locations offers several courses with an Edupreneurship focus. The programs appoint instructors who possess the requisite expertise for these

Edupreneurship-focused courses. This aligns with the requirements for achieving Learning Outcomes (LO), wherein these instructors must be able to design engaging, creative, innovative, technologically advanced, productive, and enjoyable course materials (Hayati, 2017; Hayati & Lailatussaadah, 2013).

The curriculum development process involves mapping out TPACK (Technological Pedagogical and Content Knowledge). In this process, we identify involvedge and competencies within Content Knowledge (PK), Pedagogical Knowledge (PK), Technological Knowledge (PCK), Technological Knowledge (PCK), Technological Pedagogical Knowledge (TPK), and Technological Content Knowledge (TCK). These components are integrated to form Technological Pedagogical and Content Knowledge (TPACK).

Technological Knowledge (TK)

Technology Knowledge refers to knowledge about various technologies, including software and hardware. The analysis results found that course instructors with an Edupreneurship profile possess technology knowledge characterized by using and utilizing technology in teaching. In implementing their teaching, instructors with an Edupreneurial profile respond to the media used in course delivery. Excerpts from interviews are as follows:

Excerpt 1: "... I use PPT, Video, Canva, YouTube, Microsoft Office, and easily accessible email for students..." (Lecturers 1,2,3).

Excerpt 2: "... I use online libraries like iPusnas, PPT, GCR, YouTube because they are not complicated to access and provide many references..." (Lecture 3.4.6).

Excerpt 3: "... I use PPT, Academia Edu, Vidgram, Video Conference, e-learning, YouTube, Canvas because once opened,

they provide many other references..." (Lecture 1-6).

In this context, the technology used is as shown in Figure 2 below.



Figure 2. Use of Technology in Edupreneur-Profiled Courses

Based on Figure 2, it can be seen that instructors of courses with an Edupreneurial profile use various technologies in their teaching. The research findings indicate that instructors use email, WhatsApp, Google Classroom, Canvas, Microsoft Office, simple and interactive PPTs, video, Vidgram, video conferencing, e-learning, YouTube, iPusnas, academia edu, and Canva. Technology is crucial in higher education learning (Ahmad et al., 2022; Indrajit, 2011; Trevisan et al., 2023).

Content Knowledge (CK)

Content knowledge is related to the subject matter taught. The content knowledge (CK) analysis of instructors in Edupreneur-profiled courses reveals that instructors possess expertise and knowledge related to the subjects they teach. This is based on interview data that indicate instructors teaching Edupreneur-profiled courses have educational qualifications that align with their teaching field. For example, courses like "Project Management and Marketing," "Event Management," and

"Entrepreneurship" are taught by instructors with Master's degrees in Management. Additionally, these instructors often have experience in specific business ventures. In general, instructors in Edupreneurship-based courses provide similar responses. Here are excerpts from interviews with instructors:

Excerpt 1: "... I develop teaching materials, starting with creating content on entrepreneurship in general. Then, I proceed with facts about the importance of entrepreneurship. Conceptually, I also teach students to classify or categorize forms of businesses that can be considered entrepreneurial. Besides, I ask students to follow the steps to become entrepreneurs capable of solving current national issues. Finally, I ask students to assess themselves and build strategies to become entrepreneurs who can thrive and develop themselves and their businesses. I source my teaching materials from ejournals, books, and YouTube because this course involves practical aspects often found on YouTube. Sometimes, it comes from personal experience or insights from friends who own businesses..." (Lecture 1).

In packaging teaching materials, instructors in Edupreneur-profiled courses develop their materials according to the characteristics of the course. Teaching materials for these courses encompass various components, including factual, conceptual, principle-based, procedural, and metacognitive elements, reflecting the breadth, depth, and contextual nature of material development (Tomlinson, 2013). The research findings are represented in Figure 3.



Figure 3. Development of Teaching Materials in Edupreneur-Profiled Courses

Figure 3 provides an overview of the development of teaching materials in Edupreneur-profiled courses. developing teaching materials, instructors in these courses use references from various non-digital and digital sources. Non-digital sources include books, modules/teaching materials, and input from entrepreneurship experts/business owners. Digital sources include emodules, e-journals, YouTube tutorials, and e-learning platforms. E-learning is believed to support learning (Sherrin, 2020; Syahputra & Saragih, 2021). The references used in material development can be seen visually in Figure 4.



Figure 4. Sources for Developing Teaching Materials in Edupreneur-Profiled Courses

$Pedagogical\ Knowledge\ (PK)$

Pedagogical knowledge refers to knowledge related to the general teaching

and learning processes, including assessment, student engagement, and classroom management (Abdullah et al., 2023). Research results related to the pedagogical knowledge (PK) of instructors in Edupreneur-profiled courses indicate that these instructors possess pedagogical knowledge, allowing them to conduct their courses effectively. This is evident in the documentation of semester course planning and open-ended questionnaire data. Some excerpts from the interviews are as follows:

Excerpt 1: "... I design semester course planning and develop it every semester because there are always new material developments based on the latest sources, using appropriate methods because this course involves a lot of practical aspects..." (Lecture 1-6).

Excerpt 2: "... I develop semester course planning, teaching materials, and learning media based on students' needs. Because the needs vary yearly..." (Lecture 1-6).

Excerpt 3: "... I create semester course planning according to the LO and program profile, but I develop course learning outcomes based on the current material developments..." (Lecture 1-4). Excerpt 4: "... I design plans, appropriate teaching materials, user-friendly teaching media, and create authentic assessments to evaluate comprehensively..." (Lecture 2-6).

Pedagogically, instructors conduct their courses by adhering to the program's curriculum and designing a course plan, including preparing semester course planning, course activities, teaching materials, preparing media for the teaching process, and planning course assessments. Analysis of instructors's semester course planning reveals that well-designed semester course planning includes clear and practical components, such as identity, Learning Outcomes, course learning outcomes, course

descriptions, learning activity matrices, references, assignments (structured and independent assignments), and assessments. Course planning is essential as a framework and reference for instructors and students conducting the course (Nasution, 2017; Suryadi & Mushlih, 2019). Visually, the course planning for Edupreneur-profiled courses by instructors is depicted in Figure 5.

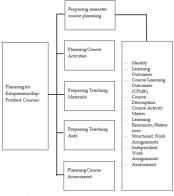


Figure 5. Edupreneur-Profiled Course Planning by Instructors

During the course implementation stage, based on documentation and questionnaire data, it is evident that instructors of Edupreneur-profiled courses employ various methods, techniques, and media in their teaching. The research findings indicate several methods instructors use: demonstration. simulation, practical techniques, workshops, assignments, field trips, discussions, and question-and-answer sessions. Here are forms of activities conducted based on these teaching methods:

The demonstration method includes creating media, marketing, service models, and product demonstrations during market day activities.

- The simulation method includes simulating media usage at bazaars, simulating products through videos, simulating the marketing process through role-playing as sellers, buyers, and evaluators, as well as using applications like Paypazz/PhET simulation.
- 3. The practical technique involves practical exercises in creating media, producing and marketing products, modeling services, educational project practices, event modeling in student conferences, cultural events, and bazaars, and creating products using recycled materials.
- Workshops guide media creation and entrepreneurship skills workshops, such as handicraft making.
- 5. Assignments include individual and group tasks for creating media, generating ideas and turning them into products, creating service model public instruments, relations activities, educational projects, event creation tasks, assignments to produce and market hand sanitizers and masks, creating media tasks using applications like Macromedia SX4, and tasks to create sellable products.
- Field trips involve visiting various business establishments.
- Discussions occur during the teaching process, both during content delivery and after skillbased learning activities.
- Question-and-answer sessions are conducted during teaching, content delivery, and skill-based learning activities.

Visually, the course activities for Edupreneur-profiled courses conducted by instructors are represented in Figure 6.



Figure 6. Edupreneur-Profiled Course Activities

The methods employed by instructors in Edupreneur-profiled courses indicate that the courses are conducted actively, with students playing a central role. These methods emphasize practical experience. Pittaway & Thorpe (2012) and Pittaway & Cope (2007) emphasize that entrepreneurship education should be action-oriented to provide learners with experiential learning. Even Gibb (1965) suggests it should be done through a prediction approach (effectual reasoning). studies have found that entrepreneurship teaching methods include simulation, video and film, case workshops, project-based methods, group discussions, and teambased learning (Michaelsen et al., 2008).

In the evaluation stage, based on data obtained, instructors of Edupreneur-profiled plan courses assessments to measure students' attitudes, knowledge, and skills. Instructors use various assessment techniques in conducting assessments, including observation, oral and written tests, assignments, projects, products, and practical assessments. Assessments are predominantly used to measure students' cognitive competencies in Edupreneurship course they are teaching. However, authentic assessment is essential to measure cognitive, affective, and psychomotor domains (Imaduddin & Zuhaida, 2019; Sakti, 2022). Visually, the assessment activities for Edupreneur-profiled courses are depicted in Figure 7.



Figure 7. Edupreneur-Profiled Course Assessment Activities

Pedagogical Content Knowledge (PCK)

Pedagogical Content Knowledge (PCK) refers to knowledge that integrates the delivery teaching model, combining subject matter and pedagogy. The PCK competence of educators specializing in Edupreneur-profiled courses can be observed in research data, where instructors integrate two components, namely pedagogy and subject matter, in their teaching. In interviews, these educators express:

"...I design course materials in various forms, including information technology, books, various online learning resources, and scientific activities such as market research, exploring market trends, presenting data for analysis, and applying a scientific approach to determine the depth of the subject matter..."

Course materials for Edupreneurprofiled courses, which have been extensively and deeply developed through modules, textbooks, or other means, are taught in specific ways, using methods, models, techniques, and so on, by preestablished plans. Materials in appropriate formats and tools can serve as scaffolding and reflective organization of the relationship between pedagogy and subject matter (Hauerwas et al., 2023; Nilsson & Karlsson, 2019).

Course materials include books, modules/teaching materials, and experts/entrepreneurs. They are delivered to students through prior planning, followed by the implementation of the teaching plan. Visually, the implementation of PCK by instructors of Edupreneur-profiled courses can be seen in Figure 8 below.

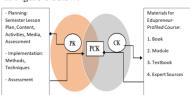


Figure 8. Implementation of Pedagogical Content Knowledge for Edupreneur-Profiled Courses

Technological Content Knowledge (TCK)

Technological Content
Knowledge, which encompasses how
technology can be used to represent
course content and transform how
learners interact with concepts, is evident
in the knowledge of instructors teaching
Edupreneur-profiled courses, as revealed
through research data. In response to their
knowledge of using technology,
instructors stated:

"At present, we are certainly required to use technology in various aspects, especially in teaching. All activities were conducted online, especially during the COVID-19 pandemic, which required technology. So, automatically, we had to learn to use technology in all teaching and learning activities."

As found by (Tseng et al., 2022), the technological knowledge of instructors can influence students' mastery of the subject matter. Similar findings were mentioned by (Martha et al., 2018).

Instructors deliver or transfer materials, including factual, conceptual, moral, procedural, and metacognitive knowledge, by utilizing technology in preparing and implementing the content.

Comprehensive coverage of the material in such teaching can be easily achieved by mastering technology (Vukić et al., 2020).

Learning materials are packaged through e-modules, e-journals, YouTube tutorials, PowerPoint presentations (both simple and interactive), as well as elearning. In this context, students interact with technology instructors to facilitate knowledge acquisition. Visually, the implementation of TCK by instructors of Edupreneur-profiled courses can be seen in Figure 9 below.

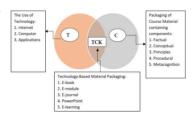


Figure 9. Implementation of Technological Content Knowledge for Edupreneur-Profiled

Technological Pedagogical Knowledge (TPK)

Technological Pedagogical Knowledge (TPK) refers to knowledge related to how technology can be used in teaching and learning. Understanding the teaching and learning process can change when specific technologies are used in particular ways. Excerpts from interviews with instructors regarding their knowledge of technology usage in teaching are presented as follows:

"...I use various methods and digital media in teaching..."

The TPK of instructors teaching Edupreneur-profiled courses can be discerned from the course implementation process. Instructors plan and conduct their courses using technology. The current advancement in technology necessitates instructors to be capable of integrating technology into their teaching (Graeske & Sjöberg, 2021; Mahyiddin & Amin, 2022). (Shinas et al., 2013) stated that technology influences teaching and learning. Visually, the implementation of TPK by instructors of Edupreneur-profiled courses can be seen in Figure 10.

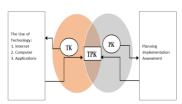


Figure 10. Implementation of Technological Pedagogical Knowledge for Edupreneur-Profiled Courses

The exploration and delineation of Technological Pedagogical Content Knowledge (TPACK) components in executing courses oriented towards Edupreneurship encompass comprehensive framework. This framework emompasses the nuanced integration of Content Knowledge (CK), Pedagogical Knowledge (PK). Technological Knowledge (TK), Pedagogical Content Knowledge (PCK), Technological Pedagogical Knowledge (TCK), and Technological Content Knowledge (TPK).

Within the domain of Edupreneurship-profiled courses, instructors' Pedagogical Content Knowledge unfolds across various stages, commencing with meticulous planning, execution, and assessment. It extends to creating educational materials manifested in modules, textbooks, and references

from expert sources. The intricate interplay of these facets contributes to a holistic approach to pedagogical content expertise.

Simultaneously, the enactment of Technological Pedagogical Knowledge by instructors involved in Edupreneurshipprofiled courses is characterized by the adept utilization of technology-based resources. This includes packaging educational content into formats such as e-books, e-modules, and e-journals, as well as creating simple and interactive PowerPoint presentations and e-learning materials. This multifaceted technology integration enhances the instructional strategies employed within Edupreneurship context.

Technological Moreover, the Content Knowledge dimension involves strategically orchestrating technologyenhanced learning experiences. encompassing the proficient utilization of the internet, computers, and various applications. The planning, executing, and assessing of these technology-infused learning initiatiss contribute to a comprehensive understanding of the intersection between technology and content knowledge within the Edupreneurial educational landscape.

In the context of entrepreneurshipfocused coursework, the role of TPACKequipped educators becomes pivotal in facilitating comprehensive knowledge absorption among students. Prior research has revealed that TPACK significantly influences the development of instructional materials (Sholihah et al., 2016). Other findings indicate a positive correlation between the instructional strategies of educators and their TPACK in preservice teaching (Baran et al., 2019). Additional studies have underscored the positive impact of TPACK development, employing mobile devices for tailored student learning needs (Hossain et al., 2019).

While extensive in mapping instructors' Technological Pedagogical Knowledge Entrepreneurship-profiled courses, it is imperative to note that this research does not yet provide a formulated framework for such knowledge in the context of entrepreneurship courses. The absence of a dedicated Technological Pedagogical Content Knowledge framework for entrepreneurship courses highlights an avenue for future research and development. Such a framework could serve as a guiding paradigm for the effective implementation entrepreneurship courses, ultimately benefiting students as active participants in the educational process.

CONCLUSION

Technological the Mapping Content Pedagogical Knowledge components in the Implementation of dupreneurship-Profiled Courses includes Content Knowledge (CK), Pedagogical Technological Knowledge (PK), Knowledge (TK), Pedagogical Content Knowledge (PCK), Technological Pedagogical Knowledge (TCK), and Technological (TPK). The Content Knowledge Pedagogical Content Knowledge of instructors teaching Edupreneurship-profiled courses begins with planning, implementation, and assessment, as well as the development of materials in the form of modules, textbooks, and expert Technological Pedagogical Knowledge, performed by instructors Edupreneurship-profiled courses, involves packaging technology-based materials such as e-books, e-modules, e-journals, simple and interactive PowerPoint presentations, and e-learning. Meanwhile, the Technological Content Knowledge includes planning, implementing, and assessing technology-enhanced learning, utilizing the internet, computers, and applications. This research is limited to mapping instructors' Technological Pedagogical Content Knowledge in the context of Edupreneurship-profiled courses, and a Technological Pedagogical Content Knowledge framework for entrepreneurship courses has not been formulated yet. Such a framework could serve as a guideline for the effective implementation of entrepreneurship courses, benefiting students as subjects in the course.

ACKNOWLEDGMENT

This research was supported by the funding DIPA UIN Ar-Raniry Banda Aceh.

REFERENCES

Abdullah, A. A., Ahid, N., Fawzi, T., & Muhtadin, M. A. (2023). Peran guru dalam pengembangan kurikulum pembelajaran. Tsaqofah: Jurnal Penelitian Guru Indonesia, 3(1), 23– 38

Adnan, G., Lailatussaadah, L., Isyraqi, A., Jamil, B., Jannah, M., Muslim, B., & Erfiati. (2020). The problems and alternative solutions for the implementation of entrepreneurship education in the higher education: A Literature Review. Tadris: Jurnal Keguruan Dan Ilmu Tarbiyah, 5(2), 349–361.

https://doi.org/10.24042/tadris.v5i2.7

Ahmad, S., Zulfikar, T., & Hardiana, F. (2020). The use of social media whatsapp among english education students for solving thesis writing problems. *Humanities & Social Sciences Reviews*, 8(3), 447–455. https://doi.org/10.18510/hssr.2020.8 348

Ariska, C. N., & Sahid, S. (2022). The social entrepreneurship readiness among university students. *Ceudah Journal: Education and Social Science*, 1(2), 48–61.

Azwar, B. (2019). Analisis Faktor-faktor

- yang mempengaruhi niat kewirausahaan (entrepreneurial intention). studi terhadap mahasiswa Universitas Islam Negeri SUSKA Riau. *Jurnal Menara*, *12(1)*, 12–22. https://doi.org/http://dx.doi.org/10.24 014/menara.v12i1.407
- Baran, E., Canbazoglu Bilici, S., Albayrak Sari, A., & Tondeur, J. (2019). Investigating the impact of teacher education strategies on preservice teachers' TPACK. British Journal of Educational Technology, 50(1), 357–370. https://doi.org/10.1111/bjet.12565
- Bazan, C., Gaultois, H., Shaikh, A., Gillespie, K., Frederick, S., Amjad, A., Yap, S., Finn, C., Rayner, J., & Belal, N. (2020). A systematic literature review of the influence of the university 's environment and support system on the precursors of social entrepreneurial intention of students. *Journal of Innovation and Entrepreneurship*, 9(4).
- Ciputra. (2007). Pentingnya Kewirausahaan dalam Pendidikan Tinggi dan Pemecahan Masalah Bangsa. Sekolah Pascasarjana Universitas Gadjah Mada.
- Creswell, J. W. (2009). John W. Creswell's Research Design 3rd Ed. In Research Design 3rd Ed. https://www.worldcat.org/title/resear ch-design-qualitative-quantitative-and-mixed-methods-approaches/oclc/269313109
- Fernández-Batanero, J. M., Montenegro-Rueda, M., Fernández-Cerero, J., & Tadeu, P. (2022). Online education in higher education: emerging solutions in crisis times. *Heliyon*, 8(8). https://doi.org/10.1016/j.heliyon.202
 - https://doi.org/10.1016/j.heliyon.202 2.e10139 raeske C & Siöberg S A (2021) VR
- Graeske, C., & Sjöberg, S. A. (2021). VRtechnology in teaching: opportunities and challenges. *International Education Studies*, 14(8), 76.

- https://doi.org/10.5539/ies.v14n8p76 Hauerwas, L. B., Capperucci, D., & Salvadori, I. (2023). Modeling Global Teaching Pedagogies in Virtual Teacher Exchange. In At School in The World: Developing Globally Engaged Teachers (p. 238). Rowman & Littlefield.
- Hayati, S. (2017). Tahap pengetahuan dan pelaksanaan pakem guru bahasa arab Madrasah Ibtidaiyah (MI) di Aceh. *Pionir: Jurnal Pendidikan*, 6(1), 39–49.
- Hayati, S., & Lailatussaadah, L. (2013). Aplikasi teori konstruktivisme dalam pakem bagi pembelajaran bahasa arab sekolah rendah di Indonesia. ADIC, 115–129.
- Hossain, S. F. A., Ying, Y., & Saha, S. K. (2019). Systematic mobile device usage behavior and successful implementation of TPACK based on university students need. Advances in Computer Vision, 729–746.
- Imaduddin, M., & Zuhaida, A. (2019). STREAMIN model for the Next Generation of Science Education in Indonesia. Journal of Physics: Conference Series, 1233(1). https://doi.org/10.1088/1742-6596/1233/1/012096
- Indrajit, R. E. (2011). Peranan Teknologi Informasi pada Perguruan Tinggi. APTIKOM.
- Koehler, M. J., Mishra, P., & Cain, W. (2013). What is technological pedagogical content knowledge (TPACK)? Journal of Education, 193(3), 13–19. https://doi.org/10.1177/00220574131 9300303
- Lailatussaadah, Jamil, A. I. Bin, & Kadir, F. A. B. A. (2020). The implementation formula of entrepreneurship education at higher education as a solution for the social problem. *International Journal of Higher Education*. https://doi.org/10.5430/ijhe.v9n6p10

- Mahyiddin, M., & Amin, F. M. (2022). Integrating technology into education: students' attitudes toward online learning. *Tadris: Jurnal Keguruan Dan Ilmu Tarbiyah*, 7(1), 79–89. https://doi.org/10.24042/tadris.v7i1.1
- 1634
 Malik, S., Rohendi, D., & Widiaty, I. (2019). Technological Pedagogical Content Knowledge (TPACK) with Information and Communication Technology (ICT) Integration: A Literature Review. 299(Ictvet 2018), 498–503.
 - https://doi.org/10.2991/ictvet-18.2019.114
- Martha, Z. D., Adi, E. P., & Soepriyanto, Y. (2018). E-book Berbasis Mobile Learning. *Jurnal Kajian Teknologi Pendidikan*, 1(2), 109–114.
- Marwanti, Y., Komariah, K., Ekawatiningsih, P., & Santosa, E. (2012). Pengembangan model pembelajaran kursus kewirausahaan melalui kerja sama dunia usaha dan dunia industri. Jurnal Kependidikan: Penelitian Inovasi Pembelajaran, 42(1), 120355.
- Michaelsen, L. K., Sweet, M., & Parmelee, D. X. (2008). *Team-Based Learning: Small-Group Learning's Next Big Step*. Wiley.
- Miles, Huberman, & Saldana. (2014). *Qualitative Data Analysis*. SAGE Publications.
- Nasution, W. N. (2017). Perencaan pembelajaran: pengertian, tujuan dan prosedur. *Ittihad: Jurnal Pendidikan*, 1(2), 185–195.
- Nilsson, P., & Karlsson, G. (2019).

 Capturing student teachers' pedagogical content knowledge (PCK) using CoRes and digital technology. International Journal of Science Education, 41(4), 419–447. https://doi.org/10.1080/09500693.20 18.1551642
- Sakti, B. P. (2022). Types of Authentic

- learning Assessment. Attadib: Journal of Elementary Education, 6(2), 342–350.
- Sentoso, E. (2012). Mewujudkan perguruan tinggi mengembangkan entrepreneurship berkarakter dalam menghadapi persaingan global. Seminar Entrepreneurship Di Unipdu Jombang.
- Sherrin, D. (2020). Authentic Assessment in Social Studies. Roudledge.
- Shinas, V. H., Yilmaz-Ozden, S., Mouza, C., Karchmer-Klein, R., & Glutting, J. J. (2013). Examining domains of technological pedagogical content knowledge using factor analysis. *Journal of Research on Technology* in Education, 45(4), 339–360. https://doi.org/10.1080/15391523.20 13.10782609
- Sholihah, M., Yuliati, L., & Wartono. (2016). Peranan TPACK terhadap kemampuan menyusun perangkat pembelajaran calon guru fisika dalam pembelajaran post-pack. Jurnal Pendidikan: Teori, Penelitian, Dan Pengembangan, 1(2), 144–153.
- Sinaulan, R. D. (2019). Masalah ketenagakerjaan di Indonesia. *Ideas: Jurnal Pendidikan, Sosial Dan Budaya,* 5(1), 55. https://doi.org/10.32884/ideas.v5i1.1
- Siswoyo, H. B. B. (2009). Pengembangan jiwa kewirausahaan di kalangan dosen dan mahasiswa. *Fakultas Ekonomi Universitas Negeri Malang*, 1–14.
- Subandi. (2015). Pengembangan kurikulum berbasiskan kewirausahaan di perguruan tinggi keislaman swasta (PTKIS). Al-Idaraah Jurnal Kependidikan Islam, 5(1), 29–46.
- Suryadi, R. A., & Mushlih, A. (2019). Desain dan Perencaan Pembelajaran. Deepublish.
- Syahputra, B. P., & Saragih, E. (2021).

- EFL teachers' attitudes toward elearning platforms during the covid-19 pandemic. *Tadris: Jurnal Keguruan Dan Ilmu Tarbiyah*, 6(2), 335–347.
- https://doi.org/10.24042/tadris.v6i2.9
- Tomlinson, B. (2013). Developing principled framework for materials development. In Developing Materials for Language Teaching. Bloomsbury.
- Trevisan, L. V., Eustachio, J. H. P. P., Dias, B. G., Filho, W. L., & Pedrozo, E. Á. (2023). Digital transformation towards sustainability in higher education: state-of-the-art and future research insights. *Environment, Development and Sustainability*, 1(0123456789).
 - https://doi.org/10.1007/s10668-022-02874-7
- Tseng, J.-J., Chai, C. S., Tan, L., & Park, M. (2022). A critical review of research on technological pedagogical and content knowledge (TPACK) in language teaching. Computer Assisted Language Learning, 35(4), 948–971. https://doi.org/10.1080/09588221.20 20.1868531
- Vukić, Đ., Martinčić-Ipšić, S., & Meštrović, A. (2020). Structural analysis of factual, conceptual, procedural, and metacognitive knowledge in a multidimensional knowledge Network. *Complexity*, 2020. https://doi.org/10.1155/2020/940716
- Wijayanto, H., & Ode, S. (2019).

 Dinamika permasalahan ketenagakerjaan dan pengangguran di indonesia. Administratio: Jurnal Ilmiah Administrasi Publik Dan Pembangunan, 10(1), 1–8. https://doi.org/10.23960/administrati o.v10i1.82
- Wiratno, S. (2012). Pelaksanaan

- pendidikan kewirausahaan di pendidikan tinggi. *Jurnal Pendidikan Dan Kebudayaan*, 19(4), 453–466.
- Zubaedi. (2015). Urgensi pendidikan kewirausahaan di kalangan mahasiswa PTKI. *Madina*, 19(2), 147–158.

16755-62589-1-CE-KD.doc

Exclude bibliography On

13,	,)	12%	4%	7%
SIMILARITY INDEX INTERNET SOURCES PUBLICATIONS ST				STUDENT PAPERS
PRIMARY SOURC	ES			
tpack.pages.wm.edu Internet Source				
Submitted to UIN Raden Intan Lampung Student Paper				
	3 www.igi-global.com Internet Source			
	journal.an-nur.ac.id Internet Source			
Technological Pedagogical Content Knowledge, 2015. Publication				1%
jurnal.ar-raniry.ac.id Internet Source				1 %
	1.um. net Sourc	edu.my		1 %
Exclude quote	S	On	Exclude matches	< 20 words