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HOW INTELLECTUAL CAPITAL CAN DEVELOP INNOVATION AND PERFORMANCE OF ACCOUNTING STUDY PROGRAM?

Sigit Hermawan1*, Niko Fediyanto2, Wiwit Hariyanto3,

Prasetyo Utomo4, Amelia Nugraha Dini5

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ABSTRACT

Purpose: The purpose of this study is to explore the role of

intellectual capital in developing innovation and performance of accounting study programs in Indonesia Methodology/approach: This type of research is qualitatively interpretive. Because the researcher understands the meaning contained in the interpretation of kev informants.

Findings: Human Capital is a key factor for intellectual capital to develop innovation and performance of accounting study programs. IC, both integrated and individually, plays a role in improving the performance of IAPS 4.0-based study programs

Practical implications: The results of this research can be used by the head of the accounting study program in achieving superior accreditation based on IAPS 4.0, namely by utilizing the role of intellectual capital in developing innovation and performance.

Originality/value: The originality of this research is to explore the intellectual capital component associated with the innovation component and the performance component of the IAPS 4.0-based accounting study program. This research also explores basic theories such as role theory, human capital theory, and the resources-based theory. KEYWORDS: Accounting Study Program; Innovation; Intellectual Capital; Performance.

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ABSTRAK

Tujuan penelitian: Tujuan penelitian ini adalah mengeksplore peran intellectual capital dalam mengembangkan inovasi dan kinerja program studi akuntansi di Indonesia Metode/pendekatan: Jenis penelitian ini adalah kualitatif interpretive. Karena peneliti memahami makna yang terkandung dalam interpretasi informan kunci. Hasil: Human Capital adalah faktor kunci bagi intellectual capital untuk mengembangkan inovasi dan kinerja program studi akuntansi. IC baik yang terintegrasi maupun individual berperan dalam meningkatkan kinerja program studi akuntansi berbasis IAPS 4.0 Implikasi praktik: Hasil riset ini dapat digunakan oleh ketua program studi akuntansi dalam meraih akreditasi unggul berbasis IAPS 4.0, yakni dengan memanfaatkan peran intellectual capital dalam mengembangkan inovasi

Orisinalitas/kebaharuan: Orisinalitas riset ini adalah mengeksplorasi komponen intellectual capital yang dikaitkan dengan komponen inovasi dan komponen kinerja program studi akuntansi berbasis IAPS 4.0. Riset ini juga mengeksplore teori dasar seperti teori peran, teori human capital, dan the resources based theory KATA KUNCI: Inovasi; Intellectual Capital; Kinerja;

Program Studi Akuntansi.

INTRODUCTION

The accounting study program as a producer of accounting graduates or accountants must continue to innovate and improve performance because the challenges ahead are getting tougher due to environmental changes, namely the industrial revolution 4.0. There are many branches of the accounting profession that will disappear due to IR 4.0, such as accountants (Frank et al., 2019; M. Mohamed, 2018), labor in the taxation sector (Oztemel & Director, Gursev, 2020; Rainnie & Dean, 2020), management accountant, bookkeeper, budget analyst (Kroon et al., 2021). Therefore, study program managers must develop innovation and performance in order to adjust to changes in the current environment.

The development of innovation and study program performance can be done by optimizing intellectual capital (IC) ((Chatterji & Dromphitakkul, 2017; Saengchai & Dromphitakul, 2019; Zerr & Dromphitakkul, 2021). IC can drive human capital owned by the organization, create capital structures in the form of information technology, organizational culture, innovation, systems, and procedures and optimize relational capital through an effective marketing system and good relations with customers. IC can realize innovations that has never existed before or innovations that was initially less optimal to be effective. With innovation, the accounting study program must be able to make something

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different from before. Innovation related to IR 4.0 is the development of human capital owned by the study program, namely the chairman and secretary and lecturers as drivers of innovation; innovation can be carried out in the study program by the chairperson and secretary, as well as learning innovation by lecturers to face IR 4.0.

Another thing that can be prepared by the accounting study program in IR 4.0 is to have superior performance in the Study Program Accreditation Instrument 4.0 (IAPS 4.0). Superior performance in IAPS requires that there are international criteria in many aspects. For example, the existence of international students in study programs, international cooperation, recognition of international students and lecturers, joint research, and international community service. With this internationalization requirement, it is intended that the study program spurs its performance so that the resulting graduates can also compete and be accepted in the international world of work.

This research is different from the previous study, which produced 60 items of the intellectual capital framework for universities in Indonesia based on IAPS 4. The criteria are 30 items for the human capital component, 18 for the structural capital component, and 12 for the relational capital component (Ulum, 2019). Another study that analyzes the disclosure of IC vocational higher education in Indonesia based on the IAPS 4.0 study program accreditation instrument (Herawati et al., 2020). The results stated that the IC disclosure chosen by vocational universities in Indonesia is substantially in the form of images plates and narratives still. The number of undisclosed IC particulars is veritably dominant (47,40%).

The most bared information is on structural capital (66%). The coming element is relational capital. Meanwhile, human capital information is only bared as important as 36 of 30 particulars.

Other studies stated that private universities in Indonesia have valuable intellectual capital (namely human capital), adequate quality structural capital, and customer capital that is quite valuable to provide more value for customers (Indiyati, 2015) . The results of other studies state that ICs positively affect innovative performance, and knowledge-based dynamic capabilities are mediators rather than moderators who partially mediate the relationship between ICs and innovative performance (Han & amp; Li, 2015). This study aims to analyze intellectual capital's role in improving the innovation and performance of the IAPS 4.0based accounting study program. The purpose of more specific research is to find the role of each component or indicator in human capital, structural capital, and relational capital for the achievement of innovation and performance of IAPS 4.0-based study programs. This is expected to facilitate the managers of accounting study programs in preparing accreditation programs and achieving superior values. The novelty of this research is to describe the IC components that play the most role in improving innovation and performance of accounting study programs, explaining the role of each IC component in improving the performance of accounting study programs based on IAPS 4.0, and and analyzing the role of the human capital theory and the resources based theory as basic theories for the relationship between intellectual capital, innovation and performance. This research implies that the managers of the accounting study program and lecturers get a formulation about the optimization of IC

to improve innovation and performance of the study program, the IC components that play the most role in innovation, and the relationship between IC and IAPS 4.0 indicators. Meanwhile this research uses two basic theories: the human capital theory (HCT) and the resource-based theory (RBT). According to Human Capital Theory (HCT), organizations or companies will get large economic output results if they invest in human capital. However, in the past, this was difficult to prove and contradictory because the economy was still very dependent on the performance of tangible physical assets such as machinery, equipment,

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land, and factories. The increase in business value comes more from investing in capital equipment than from labor. This has changed with the development of the modern economy and knowledge economy, which is more focused on increasing human capital through education, training, and health care, ultimately increasing the nation's economic output. This is supported by a lot of research on the role of human capital in innovation and organizational performance (Abuzyarova et al., 2019; Alnachef & Damp; Alhajjar, 2017; Wang et al., 2008)

The second basic theory is the resource-based theory which states that an organization or company will get optimal economic and performance benefits if it can maximize the role of resources or assets, both tangible and intangible both assets are strategic assets for the company (Barney et al., 2021; Borchert, 2008; McWilliams & Damp; Siegel, 2011; Wernerfelt, 1984; Yallwe & Damp; Buscemi, 2014). One of the intangible assets owned by the company is intellectual capital (IC). This IC is generally considered a strategic asset of the company compared to other assets. Having an IC and optimizing its role means that the organization or company will gain benefits for performance, competitiveness, and well-being (Hermawan et al., 2020; Mustapha, 2021; Sharabati et al., 2010).

Furthermore, intellectual capital (IC) is an intangible asset that can be maximized to improve organizational performance (Bontis et al., 2000; Hermawan et al., 2021). Operational ICs as intellectual materials are formalized, obtained, and managed to produce high-value assets. ICs are also elusive, but once discovered and explored, they will provide organizations with a new resource to compete and win. ICs are also defined as intellectual materials – knowledge, information, intellectual rights, and experience – that can be used to create property, collaborative brain power, and useful knowledge (Bontis, 2001; Manzari et al., 2012)

IC consists of three elements, namely human capital (HC), structural capital (SC), and relational capital (RC). Human Capital specifically presented individual knowledge stocks embedded in the company's capabilities collectively to provide the best solutions for employees. Some examples included in human capital indicators are know-how, education. vocational qualifications, knowledge related to work, job assessment, psychometric assessment, competencies related to work, entrepreneurial, innovation, proactive and reactive abilities, and the ability to change (Pedrini, 2007; Rosińska-Bukowska, 2019) Meanwhile, structural capital is all the non-human knowledge in the company, such as hardware, software, database, organizational structure, patents, trademarks, and everything about organizational capabilities that support employee productivity. Or "everything that will be left in the office when the employee comes home" (da Silva et al., 2021; Nourani et al., 2018). Some SC indicators are as follows patents, copyrights, design rights, trade secrets, trademarks, service marks, management philosophy, corporate culture, management processes, information systems, work network systems, and relationships related to finance, organizational culture, processes, and routines, corporate values, social capital, and management philosophy (Díez et al., 2010; Garcia-Alvarez et al., 2011). Furthermore, relational capital is all resources related to the company's external relationships - with customers, suppliers, or partners in research and development. This is part of human capital and structural capital related to the company's relationship with stakeholders (investors, creditors, customers, suppliers), as well as the perception they have about the company (Sulistyo & Diyamtinah, 2016; Yu et al., 2021). Examples include an image, customer loyalty, customer satisfaction, relationship with suppliers, commercial strength, negotiating capacity with financial entities, and environmental activities (Li et al., 2019; Zahoor & Derged, 2021)

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IC must be able to be utilized by organizations to innovate. IC and innovation are interrelated, and many research results state that IC plays a role in improving organizational innovation culture. Innovation is something, whether it is a way, an idea, or an object, perceived as new by a person (Ali et al., 2021; Qurashi et al., 2020). Innovation consists of the generation of new ideas and their implementation into new products, processes, or services, which leads to the dynamic growth of the national economy and the increase in employment, and the creation of pure profits for innovative business enterprises (Baregheh et al., 2009; Gault, 2018). Thus innovation will be related to new knowledge, new ways, new objects, and discoveries. With innovation, new ideas will always appear in the organization that will give birth to new products or services and new services to improve organizational

performance.

The performance of organizations, especially study programs in Indonesia, will be assessed with the Study Program Accreditation Instrument 4.0 (IAPS). In the IAPS, nine criteria must be met for the study program to get superior criteria (Ulum, 2019; Yang & Diastin, 2021).

The nine criteria are Civil <u>Service, Governance, & Education, Students, Human Resources, Finance, Infrastructure, Education, Research, Community Service, Outputs and</u>

<u>Achievements</u> of <u>Tridharma PT</u> and Quality Assurance. Thus this research model can be described as follows:

INTELLECTUAL CAPITAL

- · Human Capital
- Structural Capital
- · Relational Capital

INNOVATION

- 1. New Knowledge
- 2. A New Way
- 3. New Object
- 4. New

Technologies

5. New Discoveries

STUDY PROGRAM

PERFORMANCE

1. Civil Service,

Governance, & amp;

Cooperation

- 2. Student
- 3. Human Resources
- 4. Finance, Infrastructure
- 5. Education
- 6. Research
- 7. Community Service
- 8. Outputs and

Achievements of

"Tridharma PT"

9. Quality Assurance

Figure 1.

Research

Models

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METHOD

This research can be categorized as qualitative interpretive research (Bell et al., 2021; Lemaire & Department of the property of the meanings and phenomena revealed by key informants about the role of intellectual capital in improving innovation and performance of IAPS 4.0-based accounting study programs (Akcam et al., 2015; Obeidat et al., 2017).

Thus, this research focuses on intellectual capital, innovation, and study program performance in the industrial revolution 4.0. Intellectual capital in question is human capital, structural capital, and relational capital (Bontis, 2001; Bontis et al., 2000; Cricelli et al., 2018). Innovation is a new idea, method, or device that refers to novelty (Kogabayev & Device that refers to novelty) (Kogabayev & Device that refers to novelty (Kogabayev & Devic

<u>Data</u> collection techniques in this study were carried <u>out with in-depth</u> interviews, focus group discussions <u>(FGD)</u>, <u>observations</u>, and <u>documentation</u> (W. Mohamed et al., 2019;

Suleiman & amp; Othman, 2021). In-depth interviews were conducted with semi-structured

interviews with all key informants, either face-to-face or online interviews (Qu & Dumay, 2011; Rumetta et al., 2020). The Focus Group Discussion (FGD) was conducted with several informants, including the head of the accounting study program, experts from the Indonesian Institute of Accountants, and accounting lecturers. FGD is carried out online to facilitate its implementation (Kymäläinen et al., 2022; Woodyatt et al., 2016). The implementation of in-depth interviews and FGDs is based on interview guidelines that have been prepared before, namely based on problem formulations, theories used and concepts of intellectual capital, innovation and study program performance. The FGD aims to formulate the role of intellectual capital to improve the innovation and performance of accounting study programs based on IAPS 4.0. Observation is carried out by directly observing and following the lecture process, coaching and developing lecturers, curriculum and practicum development, and implementing cooperation between accounting study programs, business partners, and the industrial world. The purpose of observation is to find out how lecturers or human capital of this study program innovate on learning and the study program develops human capital, curriculum, practicum that is part of and structural capital and cooperation with external parties which are part of relational capital. Documentation is carried out by looking for lecturer data and their curriculum vitae, curriculum and practicum data, policy data in the accounting study program, and data on external cooperation that has been carried out. By carrying out these four data collection techniques, the data owned by the researcher is complete and can be used as a data source and data validity program. Key informants in this study are Intellectual Capital experts, chairmen, secretaries of study programs, and accounting lecturers. The selection of the informant's home university is based on the accreditation of the study program, namely accredited A and accredited B. Key informants are chosen based on the researcher's judgment (Hermawan & Damp; Amirullah, 2016; Lee, 2014). IC experts need to explore and explore information about indicators owned by human capital, structural capital, and relational capital that can be maximized to improve innovation and performance of accounting study programs. It is necessary for the head and secretary of the study program because they know everything about it, ranging from lecturers, students, curriculum, laboratories, and external party cooperation. Meanwhile, lecturer informants are needed because they are the party that carries out the study program policy. Here's the key informant data.

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No Name University

IC Experts

1 IU Universitas Muhammadiyah Malang

2 IDR Universitas Muhammadiyah Sidoarjo

3 BCP Universitas Muhammadiyah Purwokerto

4 SHE Kristen Petra University of Surabaya

5 ZF Airlangga University of Surabaya

6 AA Universitas Muhammadiyah Yogyakarta

Head & Drogram Study Program

7 AQ Universitas Airlangga Surabaya

8 M Universitas Muhammadiyah Makassar

9 IT Universitas Muhammadiyah Jakarta

10 ZH Universitas Muhammadiyah Sumatra Utara

11 S Universitas Ahmad Dahlan Yogyakarta

12 SB Universitas Muhammadiyah Sidoarjo

13 HW Universitas Muhammadiyah Yogyakarta

14 RMA Universitas Muhammadiyah Jember Lecturer

15 EW Wijava Kusuma University of Surabaya

16 NS Hayam Wuruk University of Surabaya

17 S Universitas Muhammadiyah Gresik

Source: Data Processed

Test the validity of data using credibility test and transferability. The credibility test uses **two triangulations**, **namely method triangulation and data source triangulation** (Carter et al., 2014; Corral-Robles et al., 2021; L. Haven & Corral-Robl

was obtained through crosscheck interviews with documentation data in the study program. Likewise, documentation data on curriculum changes adapted to the Industrial Revolution 4.0 are crosschecked when conducting an in-depth interview with the head of the study program. To triangulate data sources, you can crosscheck between key informants (Kusmaryono et al., 2021; Sri Suryanti & Depeni, 2019). For example, the head of the study program's interview results is crosschecked with an accounting lecturer. Furthermore, the use of transferability tests is intended so that the results of this study can

be applied to the situations of others (Latukismo et al., 2021; Pratihari & Desamp; Uzma, 2020). For this reason, research reports are detailed, clear, systematic, parsimony, and trustworthy, so readers or other researchers can easily understand them and apply them to different circumstances. In this study, each in-depth interview with key informants and FGDs was made a transcription which was then used for Coding and selecting the same theme. Data

analysis was carried out during the study. This is the hallmark of qualitative research. The stages of data analysis are data collection, data reduction, data presentation, and conclusion

drawing (M. B. Miles & Miles &

The stages of this research are as follows:

Table 1.

Key

Informant

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RESULT AND DISCUSSION

Based on the research process (Figure 2), when the data collection is completed, Coding is obtained with the same theme or research topic, namely:

Here's the explanation:

Human Capital Plays a Very Important Role in The Development of Innovation

Accounting Study Program

As already explained, IC has three <u>components</u>, <u>namely Human</u> Capital (HC), Structural Capital (SC), and Relational Capital (RC). To formulate the role of IC in improving the

innovation and performance of accounting study programs, researchers conduct in-depth interviews with study program heads, study program secretaries, and accounting lecturers. One of the university's HCs is the chairman and secretary of the study program. According to the study results, HC, in the form of the chairman and secretary of the study program, is the shaper and developer of HC owned by the study program. The meaning of HC here is lecturers, students, and alumni. The head of the study program must carry out the overall planning of the lecturer. Here's Ms. AQ's comment:

"The head of the study program is his brain because he designed everything in the study program. From lecture planning, curriculum to lecturer development, all are in the head of the study program" (excerpt of an interview with Mrs. AQ).

Furthermore, the researcher crosschecked the informant Mrs. ZH; here are her comments: "Yes, related to lecturers, the head of the study program must also plan well. Who should go to S3 school and stand by to teach? Should not all school? Then who wants to teach? So the head of the study program must have a mapping of lecturers, including when the school is, what field of competence, the direction of research and community service, what is the head of the study program, you must know everything" (excerpt of an interview with Mrs. ZH).

Activity 1
Literature Review
of RBT basic
theory,
innovation, and
performance

Determination of key informant

Retrieved documentation data

Observations

Made

Activity 2 In Depth Interview and Focus Group Discussion Data Validity Test; Credibility,

Activity 3 Qualitative

Tranferability

Data

Analysis: data collection, reduction, display, and conclusion drawing

Result Formulation of the Role of IC to Improve Innovation and Performance of Accounting

Study

Programs in the RI 4.0 Era

Figure 2. Research Process

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Based on the results of this in-depth interview, the researcher then triangulated the source by interviewing an IC expert, namely IU. Here are the comments:

"Indeed, the head of the study program has a central role in the study program. This means that he, as an HC has an important role in developing other HCs owned by the study program, namely lecturers, students, and alumni" (excerpt of an interview with IU). The same thing was stated by another IC expert, namely Mrs. SHE, who is also the head of the study program. Here are the comments:

"It is true that HC in the accounting study program, namely the chairman and secretary of the study program, plays a very important role in determining the direction and implementation of achieving the objectives of the study program. I want to add the management of HC lecturers who are already seniors and juniors. This senior lecturer has a lot of experience, but the motivation for change is low, on the contrary, this junior is low in experience but high in spirit, and the motivation to follow the development of science and technology is also high. Now, this needs to concoct the indicators in HC between competence, experience, motivation, and skills in lecturers. This is the art of leadership or leadership style ahead of the study program is needed" (excerpt of an interview with Mrs. SHE).

Based on the in-depth interview results, the results were obtained that the chairman and secretary of the program as HC have a central role in the management of the accounting study program. Furthermore, during the FGD, researchers asked about the role of this HC in increasing innovation in the accounting study program. Here are the informants' comments.

"The Head of the Study Program must be creative and innovative. For example, curriculum development according to its era, the industrial revolution 4.0 must be followed. New

knowledge about the field of accounting must be shared with all lecturers. Discoveries made by lecturers should be supported. Lecturers must do many innovative new things. It may not be the idea of the head of the study program originally, but it can be observed, imitated, and modified" (Excerpts of interviews with IDR informants)

Informant IC experts, BCP, also stated the same thing, namely the head of the study program, as HC determines innovation in the form of new knowledge, new ways, new objects, new technologies, and new discoveries. Here are the comments:

"HC in the study program greatly influences the innovations developed. So whether or not innovation is advanced in the study program is strongly influenced by the head of the study program as an HC, whether he is a learner or not. For example, new technologies in the accounting laboratory must be known and sought to be applicable to students when participating in practicum (Citation of an interview with BCP).

Coding Same Theme

A Human Capital Plays an Important Role in Increasing Innovation in the Accounting Study Program

A.1 Chairman and Secretary of The Innovation Key-Bearing Study Program in The Study Program

A.2 Lecturer determining innovation in learning and practicum

B The Role of IC in Improving the Performance of the IAPS 4.0-Based

Accounting Study Program

Data Source: Coding Process

Table 1. Research Themes

Resulting from Coding

rom coung

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(Method Triangulation and Supporting Theory-Research Triangulation)

Meaning of the Role of

ICs

Role Operationalization Credibility Test /

Triangulation Test

Actor or Party Playing

the Role

1. Chairman and secretary as

central HC in the study program

2. HC (Chairman and Secretary) of

the study program manages

other HC in the form of

lecturers, students, and alumni

3. HC (Chairman and Secretary) of

the study program plays a role in

the management of SC in the

form of information systems,

organizational culture, and study

program databases

4. HC (Chairman and Secretary) of

the study program plays a role in

the management of RC in the

form of relationships with

accountant professional

organizations, graduate user societies, and other societies

5. HC (Lecturer) plays a role in

shaping the character,

knowledge, and skills of

students and alumni

1. The role theory

(Biddle, 1986; Yong

et al., 2020).

2. The Resource based theory (Barney et al., 2021; Freeman et al., 2021; Kamaluddin & amp; Rahman, 2013) 3. IC Research (Córcoles et al., 2011; Corcoles et al., 2012; Ramírez Córcoles et al., 2011; Ramírez et al., 2017, 2019) 4. Cross Check Informant: EW, M, SB, NS, S.

The role of IC in study program innovation

- Chairman and Secretary as HC shapers innovation in SC and RC
- 2. Lecturers as HC shapers innovation in learning, research, community service, scientific publications, and roles in society
- 3. SC study program that forms a culture of research innovation, learning innovation, practicum innovation, information system innovation
- 4. RC study program that forms innovative relationship models with professional organizations,

society, and alumni.

1. (Todericiu & Damp;

Şerban, 2015)

2. (Alserhan, 2017;

Iqbal et al., 2019;

Peralta et al., 2018;

Qassas & amp; Areiqat,

2020)

3. Informant: RMA, S,

HW.

Source: Display Data and Data Reduction

Table 2. Research Results and Credibility Test

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1. The Role of IC in Improving the Performance of IAPS 4.0-Based Study Programs
The role of ICs in improving organizational performance has been widely researched, and
the result is that ICs can improve performance, competitiveness, and welfare. Technically it
can be the components of the IC as a whole or the IC separately. This is also the subject of
the problem in this study. Here are the informants' comments.

"Yes, all components of the IC play a very important role in the performance of the IAPS 4.0-based accounting study program with nine criteria. So if we look at it, HC plays the most

role in that performance. However, when the HC has made a good information system or made the right SOP, the one who works must be the system, the SOP, or the SC that works. Likewise with RC. The pattern of cooperation that has been systemized, or good relations with professional organizations that the HC has carried out, must be maintained and developed. Such a thing means that effective RC runs no longer HC (Citation of FGD results with AA)

IC experts, namely ZF informants, approved the AA informant's statement. Here are the comments:

"Technically, it is this. HC, as the center of this IC, forms SC and RC. The head of the accounting study program makes rules about the student's final project, SOP for thesis guidance, organizational culture, research culture in the study program, systems in the curriculum, and rules in this practicum, all SC. The head of the study program also draws up rules on cooperation with professional organizations, assisted MSMEs, and student internships; this is all RC. Based on this, HC, SC, and RC play a role in improving the performance of the IAPS 4.0-based accounting study program (Citation of FGD results with ZF)

(Method Triangulation and Supporting Theory-Research Triangulation)

Meaning of the Role of ICs Role Operationalization Credibility Test

The Role of IC in Improving the Performance of IAPS 4.0-

Based Study Programs

1. IC as a whole plays a role in improving the performance of accounting study programs

- 2. HC components play an important role in all performance criteria of accounting study programs
- 3. The SC component plays more important roles in the criteria of governance, governance., human resources., finance and infrastructure., education., outputs, and achievements of the tri dharma (the three main obligations) of higher education and quality assurance
- and quality assurance
 4. The RC component plays a more important role in the criteria for cooperation, research, community service, outputs, and achievements of the tri dharma of higher education
- 1. The human capital theory (Fix, 2021; Tan, 2014)
- 2. Research of human capital (Pasban & Dipole (Pasban & D
- 3. Cross Check Informant: IU, IT, ZH, NS, BCP.

Source: Display Data and Data Coding Table 3.
Research

Results and Credibility

Test

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No IC components Study Program Performance with IAPS 4.0

1 Human Capital Students, Human Resources, Research, Outputs and

Achievements of the "Tri Dharma" of Higher Education

2 Structural Capital Civil Service, Governance, Finance, Infrastructure, Quality

Assurance, Outcomes and Achievements of the "Tri

Dharma" of Higher Education, Quality Assurance

3 Relational Capital Cooperation, Community Service, Outcomes and Achievements of "the Tri Dharma" of Higher Education

Source: Display Data and Data Coding

DISCUSSION

Human Capital Plays An Importance Role in The Development of Innovation in the Study Program

Human Capital in the accounting study program, namely the chairman and secretary of the study program, plays a very important role in developing other human capital, namely lecturers, students, and alumni. In lecturer development, it starts with a planner for the overall development of lecturers. Making mapping of lecturers who must study doctoral, who must follow lecturer certification, accounting professional certification, and lecturer supporting certification (research method certification, scientific article review). The head of the study program must also be able to maximize the potential of junior lecturers with senior lecturers who have a lot of experience in the form of academic collaboration, collaboration in the preparation of textbooks, research collaboration, community service, and scientific publications. The head and secretary of the study program must also present a high academic culture, research culture, the high culture of innovation, and other organizational cultures. The chairman and secretary of the study program must also be the carrier of innovation for lecturers in activities outside of shopping. For example, lecturers do community service. The accounting study program must have good relations with the Indonesian Institute of Accountants, the Indonesian Tax Consultants Association, Public Accounting Firms, Tax Consulting Offices, BUMDES, and other organizations that lecturers can use to do community service. This is the central role of the chairman and secretary of the accounting study program

The role of the chairman and secretary of the accounting study program for students is to compile the overall student activity policy, motivate students in lectures, form the student association of departments and laboratory assistants, and motivate students to learn soft skills and hard skills outside the study program. Thus, it is necessary to have policies and implementation of innovations that the head of the accounting study program must take. It needs new ways, knowledge, technologies, objects, and discoveries that can be applied to students in the accounting study program. So it is with alumni. The chairman and secretary of the study program are the relationships between alumni and the university, creating harmony or good relations with alumni, providing information to alumni if there are job vacancies, and others.

Another important Human Capital in the study program is the lecturer because it determines innovation in learning and practicum in the laboratory. Lecturer is also a designer of the Table 4.

The Role of

HC, SC, and

RC on the

Performance

of

The

Accounting

Study

Program

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learning process for students. The lecturer determines the "Black and White" of students. Lecturer created an innovative Semester Learning Plan, designing midterm exam questions and end-of-semester exams. Lecturer designs the final abilities that students have after attending lectures. Lecturer design hard and soft skills owned by students through the

courses they teach. Lecturers must conduct innovative research and community service related to the course's learning process; lecturers innovate learning through e-learning, make innovative learning media, textbooks, and modules, and make Youtube videos for lectures. Lecturers must also create scientific articles sent to reputable international journals and compile reference books, monograph books, and textbooks. Lecturers must also carry out community service funded by campuses, government agencies or donor agencies and be active in the community or religious organizations. The results of the innovation of lecturers in any field will increase the innovation in the accounting study program.

The important role of the chairman and secretary of the accounting study program, as well as lecturers as HC, is following the role theory (Demirduzen & Demirduzen & Demirduz

The results of this study can be attributed to the human capital theory (Fix, 2021; Tan, 2014) According to this theory, organizations, including universities must invest in training and improve their human capital. This is important as an investment from other forms of capital. Strategic action requires a special set of physical, financial, human, or organizational resources so that competitive advantage is determined by its ability to acquire and retain resources. Thus, university management needs to invest in training and competency improvement in the head and secretary of the study program and lecturers because an HC plays a very important role in innovation in the study program (Kozhushko, 2021; Sultanova & Chechina, 2016).

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holder" of the success of the accounting study program through various innovations carried out (Abuzyarova et al., 2019; Chatterji & Dr. Kiran, 2017; Merritt, 2015)

The Role of IC in Improving the Performance of the IAPS 4.0-Based Accounting Study Program

The role of IC in improving university performance has been proven (Anggraini et al., 2018; Arias-Pérez et al., 2019; Mustapha, 2021; Peralta et al., 2018; Ramírez Córcoles et al., 2011). The results of this study show that IC as a whole plays a role in improving the performance of accounting study programs. Its operationalization is demonstrated by integrating HC, SC, and RC components to improve the performance of IAPS 4.0-based accounting study programs with nine criteria. The integration of the IC resulted in various innovative policies related to the performance of accounting study programs ranging from criteria one to nine. Policies result in a new governance system, innovative governance, and implementation cooperation. Cooperation not only stops at the time of the Memorandum of Understanding (MoU) but also there must be the implementation of a program of activities and also its benefits for the accounting study program. Cooperation must also reach the international level. This, of course, requires an IC in the form of an RC that can reach cooperation at the

international level. For the criteria, students also need international students as a condition so that the accounting study program can get superior scores. It also requires a network of international cooperation, so RC's role is very large in this regard.

For the criteria for human resources, the lecturers and educational staff are referred to. In this criterion, to achieve superior scores, the accounting study program must have 60% doctoral educated lecturers and lecturers with academic positions of associate professors and professors. Lecturers must also be professionally certified, with professional or industrial competency certification. Lecturers must have recognition up to the international level. Lecturers must conduct research, the tri dharma of higher education, scientific publications, and Intellectual Property Rights. Three IC components are needed with criteria like this: HC, SC, and RC. HC required is the level of education, competence, experience, training, and certification that has been carried out. SC that is needed is an operational system of procedures, IT systems, organizational culture, research culture, a culture of community service, and a culture of writing scientific papers. The RC needed is a relationship with researchers, a relationship with community service partners, and a relationship with professional and community organizations.

For financial criteria and infrastructure, accounting study programs require more SC that achieve superior goals. The finances in the study program are only for the use of funds, namely for educational, operational costs, student operational costs, research costs, community service costs, HR investment costs, and investment costs for facilities and infrastructure. The facilities and infrastructure required are laboratories and infrastructure data owned by the accounting study program. Thus, this criterion requires SC in the form of a financial information system that the accounting study program, an operational system for financial procedures, and an IT system for financial management and infrastructure can access.

Furthermore, for curriculum criteria, it is very necessary for HC and SC. HC needs the knowledge, skills, competencies, and experience of the chairman and secretary of the accounting study program to compile a curriculum according to the needs of stakeholders. For SC, what is needed is a system and procedure, and policy to implement the curriculum in the study program, including the implementation of work programs that have been designed. HC and SC are needed for this research criteria because more research activities

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require skills, knowledge, research experience, research culture, a culture of writing scientific papers, and other outputs. For the criteria of community service, more activities are carried out off-campus and partnering with the community. For example, providing training and assistance to MSMEs, BUMDES, and other community organizations. Thus RC is more needed on this criterion.

The next criterion is the output and achievement of the tri dharma of higher education. This criterion requires all IC components, namely HC, SC, and RC, because it is the result of all the criteria that existed before. Performance indicators for these criteria include learning outcomes, student achievement, educational effectiveness and productivity, graduate competitiveness, graduate performance, and research and community service outputs produced by students. Such indicators require the collaboration of HC, SC, and RC components. This means that not only the role of one of the components of the IC but the whole component plays a role. The last criterion is quality assurance. Two things become performance assessments on this criterion, namely the evaluation and control of the Internal Quality Control System and the availability of quality documents for the Internal Quality Assurance System. Both of these things require higher SC compared to HC and RC. This is because a system or standard operating procedure (SOP) is needed, which is an indicator of SC. Universities, faculties, and study programs that are able to compile good SOPs have 24 required standards, and have quality documents will always be able to maintain quality assurance and improve it.

Thus the results of this study confirm that IC components, both integrated and individually, have an important role in improving the performance of accounting study programs based on IAPS 4.0. Integrated ICs means interrelated HC, SC, and RC components. Individual ICs are HC, SC, and RC components that play a role in several study program performance criteria. However, it should be noted that this individual IC cannot independently play a role in the study program's performance criteria, which is a greater role than other components of the IC. So these IC components will always provide roles together but with different percentages. The results of this study support previous research that IC plays a role in improving the performance of universities and study programs (Kichuk et al., 2021; Mumtaz

CONCLUSION

There are two important things as a result of this research; Human Capital has a very important role in developing innovation, and the role of IC in improving the performance of IAPS 4.0-based study programs. The human capital study program is the chairman and

secretary of the study program, lecturers, students, and alums. The chairman and secretary of the study program and lecturers are human capital who play an important role in innovation development in the study program. HC's position is as the key holder of innovation success in the accounting study program. It is because the chairman and secretary of the study program are the drivers of innovation carried out by HC, SC, and RC study programs. For lecturers as HC, it also drives learning programs for students. Students' quality depends on the lecturer who provides course learning and practicum.

The results of the second study stated that IC, both integrated and individually, plays a role in improving the performance of IAPS 4.0-based study programs. This IC role can be demonstrated by the interrelationship of the role of each IC component on the nine criteria in IAPS 4.0. The other components will always support the role of each IC component. So

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the IC component cannot stand alone in carrying out its role in the performance of study programs related to accreditation instruments.

The suggestion for the next research is to conduct survey research on the head of the accounting study program, who has conducted an IAPS 4.0 accreditation assessment and is associated with IC. For managers of accounting study programs to optimize the role of HC, which has been proven to play a very important role in IC management for the development of innovation and performance.

The limitation of this study is that some in-depth interview and FGD activities were carried out online due to the COVID-19 pandemic and the distance so that there could be meaning left behind in the research activity. With the atmosphere that is normal again or the COVID 19 outbreak has slowed down, for the next research, it is better to use in depth interviews and FGDs offline.

REFERENCES

Abuzyarova, D., Belousova, V., Krayushkina, Z., Lonshcikova, Y., Nikiforova, E., & D., & D Chichkanov, N. (2019). The role of human capital in science, technology and innovation. Foresight and STI Governance, 13(2). https://doi.org/10.17323/2500-2597.2019.2.107.119

Akcam, B. K., Hekim, H., & Diler, A. (2015). Exploring Business Student Perception of Information and Technology. Procedia - Social and Behavioral Sciences, 195. https://doi.org/10.1016/j.sbspro.2015.06.347

Ali, M. A., Hussin, N., Haddad, H., Alkhodary, D., & Dr, Marei, A. (2021). Dynamic capabilities and their impact on intellectual capital and innovation performance. Sustainability

(Switzerland), 13(18). https://doi.org/10.3390/su131810028

Alnachef, T. H., & Drganizational Alnachef, T. H., & Drganizational Alnachef, T. H., & Drganizational

Performance: A Literature Review. Pressacademia, 4(1).

Alserhan, H. F. (2017). The Role of Intellectual Capital in Achieving a Competitive Advantage: A Field Study on Jordanian Private Universities in the Northern Region.

International Journal of Academic Research in Economics and Management Sciences, 6(2). https://doi.org/10.6007/ijarems/v6-i2/3139

Anggraini, F., Abdul-Hamid, M. A., & Earny, Azlina, M. K. A. (2018). The role of intellectual capital

on public universities performance in Indonesia. Pertanika Journal of Social Sciences and Humanities, 26(4).

Anglin, A. H., Wolfe, M. T., Short, J. C., McKenny, A. F., & Didduck, R. J. (2018). Narcissistic rhetoric and crowdfunding performance: A social role theory perspective. Journal of Business Venturing, 33(6). https://doi.org/10.1016/j.jbusvent.2018.04.004

Arias-Pérez, J., Lozada, N., & amp; Henao-García, E. (2019). Intellectual capital management and performance of university research groups in an emerging country, Colombia case. Informacion Tecnologica, 30(4). https://doi.org/10.4067/S0718-07642019000400181

Hermawan, Fediyanto, Hariyanto, Utomo, Dini, How Intellectual Capital...

Baregheh, A., Rowley, J., & Down Sambrook, S. (2009). Towards a multidisciplinary definition of

innovation. Management Decision, 47(8). https://doi.org/10.1108/00251740910984578

Barney, J. B. (2001a). Resource-based theories of competitive advantage: A ten-year

retrospective on the resource-based view. Journal of Management, 27(6).

https://doi.org/10.1177/014920630102700602

Barney, J. B. (2001 b). Resource-based theories of competitive advantage: A ten-year retrospective on the resource-based view. Journal of Management, 27(6).

https://doi.org/10.1177/014920630102700602

Barney, J. B., Ketchen, D. J., & D. J., & Samp; Wright, M. (2021). Resource-Based Theory and the Value

Creation Framework. Journal of Management, 47(7).

https://doi.org/10.1177/01492063211021655

Baron, M. (2021). Open Innovation Capacity of the Polish Universities. Journal of the Knowledge

Economy, 12(1). https://doi.org/10.1007/s13132-017-0515-8

Bell, E., Winchester, N., & Dischart Error, Wray-Bliss, E. (2021). Enchantment in Business Ethics Research.

Journal of Business Ethics, 174(2). https://doi.org/10.1007/s10551-020-04592-4

Biddle, B. J. (1986). Recent Developments in Role Theory. Annual Review of Sociology, 12(1).

https://doi.org/10.1146/annurev.so.12.080186.000435

Bontis, N. (2001). Assessing knowledge assets: A review of the models used to measure

intellectual capital. In International Journal of Management Reviews (Vol. 3, Issue 1).

https://doi.org/10.1111/1468-2370.00053

Bontis, N., William Chua Chong, K., & Drichardson, S. (2000). Intellectual capital and

business performance in Malaysian industries. Journal of Intellectual Capital, 1(1).

https://doi.org/10.1108/14691930010324188

Borchert, O. (2008). Resource-Based <u>Theory: Creating</u> and Sustaining Competitive Advantage. Journal of Marketing Management, 24(9–10). https://doi.org/10.1362/026725708x382046

Carter, N., Bryant-lukosius, D., Dicenso, A., & Samp; Blythe, J. (2014). Methods & Dicenso, Meanings.

Oncology Nursing Forum, 41(5).

Chatterji, N., & Dr., R. (2017). Relationship between university performance and dimensions of intellectual capital: An empirical investigation. Egitim Arastirmalari -

Eurasian Journal of Educational Research, 2017(71).

https://doi.org/10.14689/ejer.2017.71.12

Córcoles, Y. R., Peñalver, J. F. S., & Deñalver, J. F. S., & Amp; Ponce, Á. T. (2011). Intellectual capital in Spanish public universities: Stakeholders' information needs. Journal of Intellectual Capital, 12(3).

https://doi.org/10.1108/14691931111154689

Corcoles, Y. R., Santos Peralver, J. F., & Dnce, Á. T. (2012). Information needs on

intellectual capital in Spanish Public Universities. (English). Demanda de Información Sobre Capital Intelectual En Las <u>Universidades Ptiblicas</u> <u>Españolas. (Spanish), 12(1).</u>

Jurnal Reviu Akuntansi dan Keuangan, Vol 13, No 3, hal 546-569, tahun 2023

563

JRAK

13.3

Corral-Robles, S., Sánchez-Martín, M., & Design and validation

of a system of categories to assess the written discourse of I2 english learners. Porta

 $Linguarum,\,2021 (36).\,\,https://doi.org/10.30827/PORTALIN.V0I36.15944$

Cricelli, L., Greco, M., Grimaldi, M., & Dueñas, L. P. (2018). Intellectual capital and university performance in emerging countries: Evidence from Colombian public universities. Journal of Intellectual Capital, 19(1). https://doi.org/10.1108/JIC-02-2017-

0037

da Silva, R. B., Jardón, C. M. F., & Dila, L. V. (2021). Effects of Structural Intellectual

Capital on The Innovation Capacity of Public Administration. Journal of Technology

Management and Innovation, 16(3). https://doi.org/10.4067/S0718-27242021000300066

Das, T. K., & Das, T. K., & amp; Teng, B. S. (2000). A resource-based theory of strategic alliances. Journal of

Management, 26(1). https://doi.org/10.1177/014920630002600105

Demirduzen, C., & Demirduzen, C., & Archiver, C. G. (2022). A Role Theory Approach to Grand Strategy:

Horizontal Role Contestation and Consensus in the Case of China. Journal of Global

Security Studies, 7(1). https://doi.org/10.1093/jogss/ogab018

Díez, J. M., Ochoa, M. L., Prieto, M. B., & amp; Santidrián, A. (2010). Intellectual capital and value creation in Spanish firms. Journal of Intellectual Capital, 11(3).

https://doi.org/10.1108/14691931011064581

Fix, B. (2021). The rise of human capital theory. Real-World Economics Review, 95.

Frank, A. G., Dalenogare, L. S., & Dalenogare, L. S

 $\label{eq:continuous} Freeman, R. \, E., \, Dmytriyev, \, S. \, D., \, \& amp; \, Phillips, \, R. \, A. \, (2021). \, Stakeholder \, Theory \, and \, the \, Continuous \, Cont$

Resource-Based View of the Firm. Journal of Management, 47(7).

https://doi.org/10.1177/0149206321993576

Garcia-Alvarez, M. T. G.-A., Mariz-Perez, R. M., & Dry, Alvarez, M. T. (2011). Structural Capital

Management: A Guide For Indicators. International Journal of Management & Different amp; Information

Systems (IJMIS), 15(3). https://doi.org/10.19030/ijmis.v15i3.4641

Gault, F. (2018). Defining and measuring innovation in all sectors of the economy. Research Policy, 47(3).

https://doi.org/10.1016/j.respol.2018.01.007

Han, Y., & D. (2015). Effects of intellectual capital on innovative performance: The role

of knowledge-based dynamic capability. Management Decision, 53(1).

https://doi.org/10.1108/MD-08-2013-0411

Hasanudin, M., Budiyono, I., & Dealing Industrial Revolution 4.0. Dinamika Pendidikan, 14(2).

https://doi.org/10.15294/dp.v14i2.22758

Herawati, L. I., Ulum, I., & amp; Juanda, A. (2020). PENGUNGKAPAN MODAL INTELEKTUAL PERGURUAN TINGGI VOKASI DI INDONESIA

Hermawan, Fediyanto, Hariyanto, Utomo, Dini, How Intellectual Capital...

564

JRAK

13.3

BERDASARKAN INSTRUMEN AKREDITASI PROGRAM STUDI (IAPS) 4.0.

EKUITAS (Jurnal Ekonomi Dan Keuangan), 4(1).

https://doi.org/10.24034/j25485024.y2020.v4.i1.4428

Hermawan, S., & Dendekatan Kuantitatif & Amp; Amirullah. (2016). Metode Penelitian Bisnis: Pendekatan Kuantitatif & Dendekatan Kuantitatif & Dende

kualitatif. Metode Penelitian Bisnis Bandung.

Hermawan, S., Hariyanto, W., & Diduri, S. (2020). Intellectual capital, business performance,

and competitive advantage: An empirical study for the pharmaceutical companies.

Quality - Access to Success, 21(175).

Hermawan, S., Rokhmania, N., Rahayu, R. A., Qonitah, I., & Dygraheni, R. (2021). Financial

performance mediates the relationship of intellectual capital to firm value in Indonesian

banking companies. International Journal of Research in Business and Social Science (2147-

4478), 10(6). https://doi.org/10.20525/ijrbs.v10i6.1345

Indiyati, D. (2015). Intellectual capital development in higher education in Indonesia.

International Journal of Applied Business and Economic Research, 13(7).

Iqbal, A., Latif, F., Marimon, F., Sahibzada, U. F., & Description of Enterprise Information Management, 32(1). https://doi.org/10.1108/JEIM-04-2018-0083

Kamaluddin, A., & Discrete Representation and Intellectual Capital, 10(3–4).

https://doi.org/10.1504/IJLIC.2013.057427

Kichuk, Y., Kunchenko-Kharchenko, V., Hrushchynska, N., Zhukova, Y., & Drish, O.

(2021). Intellectual capital of institutions of higher education in the knowledge

economy. Journal of Optimization in Industrial Engineering, 14(1).

https://doi.org/10.22094/JOIE.2020.677844

Kogabayev, T., & Daziliauskas, A. (2017). The definition and classification of innovation.

HOLISTICA - Journal of Business and Public Administration, 8(1).

https://doi.org/10.1515/hjbpa-2017-0005

Kozhushko, R. (2021). HUMAN CAPITAL AS A KEY FACTOR IN THE

DEVELOPMENT OF UNIVERSITY INNOVATION. Management, 33(1).

https://doi.org/10.30857/2415-3206.2021.1.5

<u>Kroon, N., Do Céu Alves, M., & Amp; Martins, I. (2021). The impacts of emerging technologies on accountants' role and skills: Connecting to open innovation-a systematic literature <u>review. In Journal of Open Innovation: Technology, Market, and <u>Complexity (Vol. 7, Issue 3).</u> https://doi.org/10.3390/joitmc7030163</u></u>

Kusmaryono, I., Jupriyanto, & Distriction of students'

mathematical knowledge in the zone of proximal development and zone of potential

construction. European Journal of Educational Research, 10(1).

https://doi.org/10.12973/eu-jer.10.1.341

Jurnal Reviu Akuntansi dan Keuangan, Vol 13, No 3, hal 546-569, tahun 2023

565

JRAK

13.3

Consumer Perspectives on Bio-Based Products and Brands—A Regional Finnish Social

Study with Future Consumers. Sustainability (Switzerland), 14(6).

https://doi.org/10.3390/su14063665

L. Haven, T., & D. L. (2019). Preregistering qualitative research. In

Accountability in Research (Vol. 26, Issue 3).

https://doi.org/10.1080/08989621.2019.1580147

Latukismo, T. H., Yulianti, P., Ilham, Putra, R. S., Usman, I., Fatimah, N., & Dr., Setiawan, H. C.

B. (2021). Entrepreneurial Mindset of Successful Women from Recycling Waste. Review

of International Geographical Education Online, 11(3).

https://doi.org/10.33403/rigeo.800528

Lee, J. (2014). Genre-Appropriate Judgments of Qualitative Research. Philosophy of the Social

Sciences, 44(3). https://doi.org/10.1177/0048393113479142

Lemaire, C., & Day in the research into their lessons – a critical teacher-researchers in accounting infuse research into their lessons – a

research note. Qualitative Research in Accounting and Management, 16(4). https://doi.org/10.1108/QRAM-10-2018-0072

Li, Y., Song, Y., Wang, J., & Di, C. (2019). Intellectual capital, knowledge sharing, and

innovation performance: Evidence from the Chinese Construction Industry.

Sustainability (Switzerland), 11(9). https://doi.org/10.3390/su11092713

Manzari, M., Kazemi, M., Nazemi, S., & Doya, A. (2012). Intellectual capital: Concepts,

components and indicators: A literature review. Management Science Letters, 2(7).

https://doi.org/10.5267/j.msl.2012.07.018

Markham, S. K., Ward, S. J., Aiman-Smith, L., & Double of London, A. I. (2010). The valley of death as context for role theory in product innovation.

Journal of Product Innovation Management, 27(3). https://doi.org/10.1111/j.1540-5885.2010.00724.x

McWilliams, A., & Diegel, D. S. (2011). Creating and capturing value: Strategic corporate

social responsibility, resource-based theory, and sustainable competitive advantage.

Journal of Management, 37(5). https://doi.org/10.1177/0149206310385696

Mejia, S. P., Hincapie, J. M. M., & Diraldo, J. A. T. (2019). A hub-based university innovation

model. Journal of Technology Management and Innovation, 14(1).

https://doi.org/10.4067/S0718-27242019000100011

Merritt, H. (2015). The Role of Human Capital in University-Business Cooperation: The

Case of Mexico. Journal of the Knowledge Economy, 6(3). https://doi.org/10.1007/s13132-

015-0258-3

Miles, M. B., & Data Analysis: An Expanded Sourcebook.

Miles, M., & Data Analysis: An expanded sourcebook.

Hermawan, Fediyanto, Hariyanto, Utomo, Dini, How Intellectual Capital...

566

JRAK

13.3

Mohamed, M. (2018). Challenges and benefits of industry 4.0: An overview. International Journal of Supply and Operations Management, 5(3).

Mohamed, W., Yasseen, Y., & Donarjee, F. Z. (2019). The perceptions of South African

accounting practitioners on the post-implementation of IFRS for SMEs in an

institutionalised environment. Journal of Economic and Financial Sciences, 12(1).

https://doi.org/10.4102/jef.v12i1.393

Mumtaz, S., & Dobas, Q. (2014). An empirical investigation of intellectual capital affecting the performance: A case of Private Universities in Pakistan. World Applied Sciences Journal, 32(7). https://doi.org/10.5829/idosi.wasj.2014.32.07.1251

Mustapha, A. (2021). Interaction Effect of Intellectual Capitals on University Performance.

Current Journal of Applied Science and Technology.

https://doi.org/10.9734/cjast/2021/v40i3131550

Nourani, M., Chandran, V., Kweh, Q. L., & D, L., W. M. (2018). Measuring Human, Physical

and Structural Capital Efficiency Performance of Insurance Companies. Social Indicators

Research, 137(1). https://doi.org/10.1007/s11205-017-1584-6

Obeidat, B. Y., Tarhini, A., Masadeh, R., & Samp; Aqqad, N. O. (2017). The impact of intellectual capital on innovation via the mediating role of knowledge management: A structural equation modelling approach. International Journal of Knowledge Management Studies, 8(3–4).

https://doi.org/10.1504/IJKMS.2017.087071

Oztemel, E., & Gursev, S. (2020). Literature review of Industry 4.0 and related technologies.

In Journal of Intelligent Manufacturing (Vol. 31, Issue 1). https://doi.org/10.1007/s10845-

018-1433-8

Pasban, M., & Djedeh, S. H. (2016). A Review of the Role of Human Capital in the

Organization. Procedia - Social and Behavioral Sciences, 230.

https://doi.org/10.1016/j.sbspro.2016.09.032

Pedrini, M. P. (2007). Human capital convergences in intellectual capital and sustainability

reports. Journal of Intellectual Capital, 8(2). https://doi.org/10.1108/14691930710742880

Peralta, V. P., Rojo, M. B., Romero, N. B., Bastidas, C. S., & Drozco, A. P. (2018). Intellectual Capital: A comparative view between enterprises

and universities. International Journal on Advanced Science, Engineering and Information Technology, 8(2).

https://doi.org/10.18517/ijaseit.8.2.3253

Pratihari, S. K., & Drama, S. H. (2020). A survey on bankers' perception of corporate social

responsibility in India. Social Responsibility Journal, 16(2). https://doi.org/10.1108/SRJ-

11-2016-0198

Qassas, K., & Definition Achieving Competitive Advantages at Jordnanian and its Role in Achieving Competitive Advantages at Jordnanian

Private Universities. International Journal of Higher

Education, 10(2). https://doi.org/10.5430/ijhe.v10n2p92

Jurnal Reviu Akuntansi dan Keuangan, Vol 13, No 3, hal 546-569, tahun 2023

567

JRAK

13.3

Qu, S. Q., & Dumay, J. (2011). The qualitative research interview. In Qualitative Research in

Accounting and Management (Vol. 8, Issue 3).

https://doi.org/10.1108/11766091111162070

Qurashi, I. A., Khalique, M., Ramayah, T., Bontis, N., & Dontis, N., & R. (2020). Impact of intellectual capital on innovation in pharmaceutical manufacturing SMEs in Pakistan. International Journal of Learning and Intellectual Capital, <u>17(1)</u>

https://doi.org/10.1504/IJLIC.2020.105324

Radianto, W. E. D., & D., & amp; Gumanti, T. A. (2019). Human capital analysis of organizational

performance mediated by customer capital: Case of accounting study program.

International Journal of Scientific and Technology Research, 8(12).

Rainnie, A., & Dean, M. (2020). Industry 4.0 and the future of quality work in the global

digital economy. Labour & Dustry, 30(1).

https://doi.org/10.1080/10301763.2019.1697598

Ramírez Córcoles, <u>Y., Santos Peñalver, J., & Donce, Á.</u> (2011). Intellectual capital in Spanish public universities: stakeholders' information needs. Journal of Intellectual Capital, 12(3).

Ramírez, Y., Manzanegue, M., & Driego, A. M. (2017), Formulating and elaborating a model

for the measurement of intellectual capital in Spanish public universities. International

Review of Administrative Sciences, 83(1). https://doi.org/10.1177/0020852315575168

Ramírez, Y., Tejada, Á., & amp; Baidez, A. (2019). Intellectual Capital Disclosure: Profiles of

Spanish Public Universities. International Journal of

Rosińska-Bukowska, M. (2019). Human Capital and Intellectual Capital in Modern

International Business - Based on Studies of the Strategies of Transnational

Corporations. Comparative Economic Research, 22(2). https://doi.org/10.2478/cer-2019-

0017

Rumetta, J., Abdul-Hadi, H., & Dural of Infection and Public Health, 13(2). https://doi.org/10.1016/j.jiph.2019.07.027

Saengchai, S., & Dittuean, J. (2019). The impact of intellectual capital on performance of

Universities in Thailand: The mediating role of entrepreneur orientation. International

Journal of Innovation, Creativity and Change, 6(10).

Sharabati, A. A. A., Jawad, S. N., & Dontis, N. (2010). Intellectual capital and business performance in the pharmaceutical sector of Jordan. Management Decision, <u>48(1)</u>

https://doi.org/10.1108/00251741011014481

Sri Suryanti, H. H., & Depeni, S. (2019). A problem based learning (PBL) model in developing

students' soft skills aspect. International Journal of Higher Education, 8(8).

https://doi.org/10.5430/ijhe.v8n8p62

Hermawan, Fediyanto, Hariyanto, Utomo, Dini, How Intellectual Capital...

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JRAK

13.3

Suleiman, N., & Suleiman, V., & Suleiman, V.,

https://doi.org/10.46743/2160-3715/2021.3907

Sulistyo, H., & Siyamtinah. (2016). Innovation capability of SMEs through entrepreneurship, marketing capability, relational capital and empowerment. Asia Pacific Management Review, 21(4). https://doi.org/10.1016/j.apmrv.2016.02.002

Sultanova, A. V., & Dechina, O. S. (2016). Human <u>capital</u> as a key factor of <u>economic</u> growth in crisis. European Research Studies Journal, <u>19(2 Special Issue)</u>.

https://doi.org/10.35808/ersj/522

Tan, E. (2014). Human Capital Theory: A Holistic Criticism. Review of Educational Research,

84(3). https://doi.org/10.3102/0034654314532696

Todericiu, R., & amp; Şerban, A. (2015). Intellectual Capital and its Relationship with Universities.

<u>Procedia</u> Economics and Finance, 27. https://doi.org/10.1016/s2212-5671(<u>15</u>) 01052-7

Ulum, I. (2019). INTELLECTUAL CAPITAL FRAMEWORK PERGURUAN TINGGI

DI INDONESIA BERDASARKAN INSTRUMEN AKREDITASI PROGRAM STUDI (IAPS) 4.0. Jurnal Reviu Akuntansi Dan Keuangan, 9(3).

https://doi.org/10.22219/jrak.v9i3.10227

Wang, I. M., Shieh, C. J., & Damp; Wang, F. J. (2008). Effect of human capital investment on

organizational performance. Social Behavior and Personality, 36(8).

https://doi.org/10.2224/sbp.2008.36.8.1011

Wernerfelt, B. (1984). A resource-based view of the firm. Strategic Management Journal, 5(2).

https://doi.org/10.1002/smj.4250050207

Williamson, K., Given, L. M., & Dr., Scifleet, P. (2018). Qualitative data analysis. In Research

Methods: Information, Systems, and Contexts: Second Edition. https://doi.org/10.1016/B978-

0-08-102220-7.00019-4

Woodyatt, C. R., Finneran, C. A., & Discussions: A Comparative Analysis of Data Quality. Qualitative Health Research, 26(6). https://doi.org/10.1177/1049732316631510

Yallwe, A. H., & Durnal of Applied Finance and Banking, 4(5).

Yang, Y. A. R., & Dollastin, B. (2021). Lecturer Performance Information Systems Based on

IAPS 4.0. Manutech: Jurnal Teknologi Manufaktur, 13(02), 81-89.

https://doi.org/10.33504/manutech.v13i02.178

Yong, F. R., Garcia-Cardenas, V., Williams, K. A., & (Charlie) Benrimoj, S. L. (2020). Factors affecting community pharmacist work: A scoping review and thematic synthesis using role theory. In Research in Social and Administrative Pharmacy (Vol. 16, Issue 2). https://doi.org/10.1016/j.sapharm.2019.05.001

Jurnal Reviu Akuntansi dan Keuangan, Vol 13, No 3, hal 546-569, tahun 2023

569

JRAK

13.3

Yu, Y., Zhang, M., & Duo, B. (2021). The impact of relational capital on green supply chain management and financial performance. Production Planning and Control, 32(10).

https://doi.org/10.1080/09537287.2020.1774675

Zahoor, N., & Degreed, A. M. (2021). Relational capital, environmental knowledge integration, and environmental performance of small and medium enterprises in emerging markets. Business Strategy and the Environment, 30(8).

https://doi.org/10.1002/bse.2840

Zerr, A. A., & Dept. A. (2021). The Impact of Intellectual Capital on Job Performance

based on Faculty Members' Perceptions at Universities. International Business Research,

14(7). https://doi.org/10.5539/ibr.v14n7p1

Zhang, B., & Dromphitakkul, W. (2021). Impact of Intellectual Capital on Work

<u>Performance</u> of University Teachers: The Intermediary Role of Intra Organization

Trust. Journal of Human Resource and Sustainability Studies, 09(02).

https://doi.org/10.4236/jhrss.2021.92022

Zhang, M., Lettice, F., & Davar, K. (2019). Effects of intellectual capital and university knowledge in indigenous innovation: evidence from Indian SMEs. Production Planning and Control, 30(10–12). https://doi.org/10.1080/09537287.2019.1582090