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# Proceedings of the International Conference on Research and Academic Community Services (ICRACOS 2019)

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Welcome to the International Conference on Research and Academic Community Services (ICRACOS 2019) at the Institute of Research and Community Services, Universitas Negeri Surabaya, Indonesia. This conference will take place in Surabaya, Indonesia, on September 7, 2019. The conference is organized by the Institute of Research and Community Services, Universitas Negeri Surabaya with funding support from the directorate general of research and development of the Ministry of Research and Technology in the 2019 fiscal year in the scheme of international scientific

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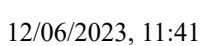
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M.Eng. from Bandung Institute of Technology and Indonesia Railroad Commissioner, Indonesia, and Prof. Dr. H. Muchlas, M.Pd. from Surabaya University, Indonesia. For this seminar held by LPPM Surabaya State University, we thank you for all of your support.

Finally, if there are any words that are not pleasing in the hearts of all, we deeply apologize. Welcome to attend the ICRACOS 2019 seminar and a series of supporting activities. Hopefully what we do today will benefit our progress in the future.

Conference Chair

Prof. Dr. Titik Taufikurohmah, M.Si

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## Proceedings Article

# Digital Workplace Implementation To Promote Gender Equality

Nita Yalina

The focus of this research is to provide an explanation of how the digital workplace can help to promote gender equality in the organization. We conduct interviews with 4 managers and 8 selected woman on different organization regarding expected condition at the workplace. In the Organization perspective,...

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## Proceedings Article

# The Anatomy of Informed Consent that Provides Legal Protection for every Party

Agus Yuda Hernoko, Ghansham Anand, Antonius Gunawan Dharmadji, Chesa Ramadhan

A doctor-patient relationship relies on two kinds of basic individual rights; right of self-determination and right to healthcare. These basic rights derive

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## Material to Economic Subjects in Senior High Schools

Hakim Luqman, Anwar Moch. Khoirul, Pahlevi Triesninda, Pratiwi Vivi, Kurniawan Riza Y

This study aims to analyze the importance of adding sharia economic material to economic subjects in Senior High Schools, especially in Science Department. The type of this research is literature review research by examining various journals and previous theories. The results showed that the sharia economic...

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### Proceedings Article

## Upcycling Wedding Gowns: Development Of Design, Materials And Ornaments

Ratna Suhartini, Juhrah Singke, Aldia Danardewi

This study aims to analyze: a) upcycling of bridal gowns in terms of design development, material uniformity, decoration and upcycling feasibility. This type of research is research exploration. Research procedures include a) problem collection, b) Gathering wedding gowns, c) developing wedding dresses...

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The present study focused on youth political participation in the democr practices in the Province of Khyber Pakhtunkhwa (KPK), Pakistan. The s deployed the main theory of Jürgen Habermas 'The Public Sphere', this theory indicated that people use to discuss their social and political matters...

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### Analysis of the learning style of college student athletes for preparation of distance learning

Kunjung Ashadi, Imam MARSudi, Yonny Herdyanto, Gigih Siantoro

Every individual has a different learning style. By knowing the learning style, an approach can be chosen that fits each of these learning styles. The purpose of this study was to find out the learning styles of students from athletes who performed well at provincial, national and international levels....

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## Proceedings Article

### Fashion Student Skill as Millennial Entrepreneur

Ma'rifatun Nashikhah, Mochammad Bruri Triyono

Fashion student in Senior Vocational High Schools (SMK) are middle schools that prepare their graduates for working in certain field of work. This research to know fashion skill student prepared their skill as the graduate school not depend on position as industry and services but it is possible can...

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## Proceedings Article

### Factors Influencing Indonesia Coffee Exports Volume

Sucihatiningsih Dian Wisika Prajanti, Suwito Eko Pramono, Fauzal Adzmin

This study aimed to analyze factors influencing coffee exports volume in Indonesia. The study belonged to quantitative research with secondary data of time series in the period of 1983-2017. For more, the technique of analysis employed in this study was Multiple Linear Regression Analysis with Ordinary...

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of wind characteristics in Indonesia frequently changing direction change and its average speed is also categorized low. For that we need to develop high-efficiency wind turbines at low wind speeds. In this research, a...

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### Threat of Stunting in Early Childhood

Cindi Ambar Puspitasari, Puji Yanti Fauziah

Stunting is a height index according to age below minus two standard deviations based on WHO standards (World Health Organization). Stunting is a problem in early childhood which is very worrying in developing countries. Stunting is a form of growth failure due to the accumulation of nutritional insufficiency...

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### Ecowas Common Trade Policy: Challenges And Opportunities

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## Proceedings Article

# Islamic Business Ethics on Customer Retention

Regina Suhandi, Arasy Fahrullah

The aim of this research is to test the effect of islamic business ethics that consist of unity/tauhid, equilibrium, free will, responsibility, and truth towards customer retention of BMT UGT Sidogiri Cabang Tanah Merah Bangkalan. This research was conducted with an associative quantitative approach....

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## Proceedings Article

# Indonesian Students' Reading Literacy

Sri Wijayanti

Reading is supposed to be an activity frequently performed by university students. However, not all students are fond of reading, particularly in the digital era. This study aims to identify students' reading literacy both in their family and their campus and determine whether campus library maximally...

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Batik is one of the works of ancient art in some countries. This art has become closely associated with the identity of Southeast Asia particularly Indonesia. We define sustainable batik production as a batik production process that is non-polluting, conserving energy and natural resources, economically...

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### Community-Based Integrated Coastal Management Strategy in Tugurejo Subdistrict, Semarang

Nana Kariada Tri Martuti, Rudhi Pribadi, Wahid Akhsin Budi Nur Sidiq, Dhita Prasisca Mutiatari

Community involvement has an important role to maintain and manage the coastal area of Semarang. The involvement includes program preparation, implementation and monitoring so that the community feels responsible for the rehabilitation and maintenance of the environment. The purpose of this study is...

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quite good quality coffee although on a small scale. However, the product quality...



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## Proceedings Article

### Empowering Women through Batik Training in Dolly's Ex-Localization Area

Aniendya Christianna, Mariana Wibowo, Poppy Firtatwentyna Nilasari

A lot of batik trainings have been done by the Surabaya city government, but batik craftsmen have never received training in the creative process of producing batik motifs. They do not have the confidence to draw their own batik motifs. During this time, they only imitated existing images (from television,...

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### The Effect of Dysmenorrhea and Anxiety on Agility With

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# Improving the ability of literacy, collaboration, democracy attitude, and high level thinking ability with learning based on theory of constructivism

Mustaji, Kristanto, Arianto, Masruro

The ability of literacy, collaboration, democratic attitudes, and higher-order thinking skills is very important for students, but has not been taught optimally in college. Previous research shows that the implementation of constructivist learning theory has the potential to improve literacy, collaboration,...

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# Management of Cooperatives in Improving Financial Performance in East Java, Indonesia

Eni Wuryani

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## Proceedings Article

# The Validity and Reliability of Cognitive Tests for Decision Making on Soccer Players

Ali Imron, Wijono, Miftakhul Jannah, Setyorini

the ability to make decisions becomes an important cognitive skill possessed by soccer players. Practicing tactical awareness is an effective alternative in improving the ability to make decisions. And it has become a habit of a lot of soccer practice, these skills are trained through practice in the...

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# Nanocrystalline Titanium Dioxide Nanotube (TDN) by Hydrothermal Method From Tulungagung Mineral Sand

Lydia Rohmawati, Istiqomah, Entang Wulancahayani, Ajeng Haefdea, Woro Setyaningsih

This research is focused on extraction titanium dioxide nanotubes from Tulungagung mineral sands using the hydrothermal method. Extraction is done by dissolving mineral sand into sulfuric acid solution and vacuums

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# Employment Market of the 4th Industrial Revolution

Susanti, Harti, Vivi Pratiwi, Han Tantri Hardini

This study aims to describe the level of readiness of students majoring in Economic Education at the Faculty of Economics, State University of Surabaya in dealing with the world of work in the era of the 4th industrial revolution when viewed from the self-efficacy's factor. The type of this research...

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# Students' Perception Toward the Implementation of Project Based Learning for EFL Vocational High School.

Arik Susanti, Pratiwi Retnaningdyah, Anis Trisusana

This study focused on the students' perceptions toward the implementation of Project Based Learning in learning English as a Foreign Language that was conducted in one public of vocational high school in Surabaya Indonesia. The research was mixed method that used quantitative and qualitative data. The...

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### Manufacture of Unesa's Aerobic Dance

Nur Ahmad Arief, Nurhasan, Kunjung Ashadi

Unesa aerobic dance have different characteristics from other models. The advantages of this include the movement pattern that is in line with the development of a more energetic era, which makes the participants more enthusiastic in participating, music follows an energetic and trending beat pattern...

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### An introductory book for coaching athletes with a disability

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## Proceedings Article

# Building an Egalitarian Family through Muslimat and Fatayat Nahdlatul Ulama (Nu)

Darni, Ubaidillah

The purpose of this study generally is to describe the role of Muslimat and Fatayat (an organization of Muslim women) in forming an egalitarian family. Specifically, this study discusses the role of Muslimat and Fatayat NU and gender in forming an egalitarian family. Both of these problems were approached...

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## Proceedings Article

# In Vitro Mucolytic Activity Assay of The Acetone Extract of The Silver Fern (*Pityrogramma calomelanos*)

Suyatno Sutoyo, Tukiran, Nur Indah Kumala Sari

The aims of this research is to determine mucolytic activity of methanol extract of silver fern (*P. calomelanos*). In this research extraction was carried out by maceration method. Qualitative test was done by ferric chloride reagent

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Songkro dance is a new dance that blends traditional and contemporary motion art which is arranged in interesting and unique gestures. Songkro itself is the name of the tool used by sand miners on the banks of the Brantas River, Kediri, and East Java. Songkro is made of woven bamboo that is shaped like...

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### Synthesis and Characterization of Nanogold-Nanosilver Cluster Diameter Using UV-Visible Instruments and TEM Electron Microscope Transform Instruments

Titik Taufikurohmah, Djodjok Soepardjo, Rusmini, Hari Armadianto

Cluster diameter analysis of the results of nanomaterial synthesis can be done using UV-Visible instruments with complex mathematical calculations. Another way is to use the Transform Electron Microscope (TEM) instrument directly. Both have advantages and disadvantages of each. This research compares...

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E-Coli bacteria. Continuing the previous research as a target of...



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# Building the Character of Elementary School Students through Javanese Language Learning

Yunita Ermawati, Darni, Surana, Murdiyanto, Sugeng Adipitoyo

Education is still considered as a pillar for young generations in undergoing a millennial era. Intellectual and character are a complete package that must be had by young generations in undergoing the millennial era. So in other words, school is an institution that is given the responsibility to produce...

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# Analysis of Green Open Space in Krembangan, Surabaya City

Sri Murtini, Agus Sutedjo, Ita Zain

There are plenty of Green Open Spaces in Surabaya, East Java, Indonesia such

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## Proceedings Article

### The Effect of Zumba and High Impact Aerobic

Nining Widyah, Suminar Jajang, S.P Bird

Zumba and high impact aerobic is a popular training method that can be used to reduce body fat and skinfold thickness. The main aim of the research was to find the significant effect of zumba and high impact aerobic in reducing skinfold thickness. This study was conducted at 30 female members of Jivi...

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### Integrating the Hypothetical Learning Trajectory with Realistic Mathematics to In-Service Teachers' Professional Development

Rooselyna Ekawati, Atik Wintarti, Abadi, Ika Kurniasari

This study aimed at integrating the notion of Hypothetical Learning Trajectory (HLT) of teaching mathematics with Realistic Mathematics approach to in-service teachers' Professional Development. We constructed a teachers' training program to develop teachers' understanding on designing

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## Collaboration Skills

Peni Suharti, Muslimin Ibrahim, Yuni Sri Rahayu

Communication and collaboration are skills that needed in the 21st century, and also including as one of the science process skills and generic skills that students must possess. This development research aims to 1) develop an Investigation Based Scientific Collaborative (IBSC) learning model to facilitate...

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### Proceedings Article

## Analysis of the Company's Performance Based on Method of Economic Value Added

Anita Nisa Kambey, Novalita Silinaung

Economic value added is financial performance analysis tool of company that used for measure the value added per valuation period and also used by investor as a guidance and based to make an investment in the company. The purpose of this study was to know the financial performance in the fishery sub...

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the government's challenge. In a social perspective, the law is a social fact. The law and social fact, both have an absolute relationship. This study discusses the philosophical and sociological foundation of law concept as a social...

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### Consistency and Relevance of Structured Lecture Materials in Physical Chemistry 3 Subjects

Suyono, Harum Nasrudin, Bertha Yonata

The purpose of the study was to produce a Physical Chemistry 3 (PC3) Structured Lecture Material (SLM-PC3) that was feasible to facilitate students to achieve the minimum ability in argumentation skills (AS), science process skills (SPS), and problem solving skills (PSS) as part of the thinking ability...

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### Study of Social, Ethical Woman in Fairy Tales for Children

Wahyu Sukartiningsih, Neni Mariana, Maryam Isnaini Damayanti

The research is based on the identity of a woman's life. Appreciation and recognition of a woman's identity is very important to instill in children. The aim of this study was formulated with a general goal, which is to describe the social ethical aspects of women in fairy tales for children. This research...

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### Implementation of e-Learning Modules in Viola Instrument Course-Indria Level Practical Learning

Harpang Karyawanto, Heri Murbiyantoro, Moh Sarjoko

The development of e-learning is a form of quality improvement undertaken to achieve effective learning. The Music Department, as one of the study programs at Universitas Negeri Surabaya, has two types of courses, namely theory and practice. The purpose of this study is to develop e-learning learning...

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Sartinah Endang P, Andajani Sri J, Anggraini Lisdiana Dewi Putri

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# Learning Need Assessment: Formulating Blended-Learning as Academic Services for Student-Athletes

Anung Priambodo, Agus Hariyanto, Vega Candra Dinata, Kolektus Oky Ristianto, Bayu Budi Prakoso

There is no other way to succeed in many ways except to do more business. That is what happens to student-athletes who study at Physical Education Teacher Education (PETE). They must perform optimally as athletes, as well as success in learning to achieve maximum academic achievement. For this reason,...

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Trimulyono Guntur, Isnawati

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Arsana I Made, Susila I Wayan, Cholik Mochamad

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 Patrupi Evangelista Lus Windyana, Putri Hanu Rizkia, Yonata Bertha, Sari Dhita

A P, Jauhariyah Mukhayyarotin N R, Basri Ahmad, Hidayah Rusly

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This study is aimed to find out the relation of student teachers' English proficiency and their self-efficacy in teaching at international school.

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Sri Andajani, Oce Wiriawan, Pamuji Pamuji

The purpose of this research is to describe the application of media detector in track running sports learning for visually-impaired students in special needs

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# The Readiness of Economy Education Students for the Employment Market of the 4<sup>th</sup> Industrial Revolution

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**Abstract**— This study aims to describe the level of readiness of students majoring in Economic Education at the Faculty of Economics, State University of Surabaya in dealing with the world of work in the era of the 4th industrial revolution when viewed from the self-efficacy's factor. The type of this research is a quantitative descriptive study using 348 samples. There are 3 aspects of self-efficacy discussed in this study, namely the moral and the teacher's code of ethic's aspect, human value's aspect, and self-ability's aspect. The results showed that students majoring in Economic Education at UNESA had good job readiness in dealing with the world of work in the 4th industrial era on moral and ethical codes of teacher's aspect and human value's aspect. However, there are things to note are the low foreign language skills of students in the self-ability's aspect. Students still feel that they are not ready with the demands of the use of foreign languages which are starting to be demanded by the workforce today. Therefore, coaching and assistance are needed to increase the weaknesses of students on these indicators. (*Abstract*)

**Keywords**—Students' Readiness, Economy Education Student, Self-efficacy, 4<sup>th</sup> Industrial Revolution. (*key words*)

## I. INTRODUCTION

Nowadays, advances in science and technology have brought the world into the 4th era of the industrial revolution or can also be called the era of disruption. This era is marked by the many automation systems in all fields of life with technology. In general, technology in education is considered a challenge and opportunity [1] [2]. Technology presents new job opportunities based on technology and produces high added value in facilitating human life. On the other hand, technology is a challenge for humans to continue to develop and be able to become human resources who master technology. Although the impact of this development on graduate employment opportunities is not yet clear, it is likely that the fourth industrial revolution will create new jobs and unemployment in a relatively equal size [3]. As a result, as many as 75-375 million workers switched professions and as many as 1.8 million jobs were replaced by machines. Therefore, State Higher Education (PTN) and Private Higher Education (PTS) are required to be able to produce professional graduates who are ready to face this 4th industrial era.

Surabaya State University (UNESA) is one of the State Higher Education in Indonesia which organizes educational programs and non-educational programs that have more than 25,000 students. UNESA is an institution based on Educational Workforce Education Institutions so that its main task is to produce educational staff for preschool education, basic education and secondary education. UNESA students as candidates for professional education in the 4th industrial era must be able to understand and develop according to the needs of the workforce today. UNESA students are also equipped with a variety of technology-based knowledge that is applied in every academic activity so they are used to using technology. This is because they will play an important role in the success of learning at various levels of education that will affect the quality of human resources in Indonesia. Professional education personnel have several criteria that must be mastered, including self-confidence or self-efficacy [4].

Self efficacy is a person's evaluation of his ability or competence to carry out a task, achieve goals and overcome obstacles [5]. Self efficacy can also provide a strong foothold for individuals to evaluate themselves to be able to face the demands of work and competition dynamically [4]. The stronger the level of self-efficacy a person has, the more prepared a person is to face the world of work. This is because self-efficacy describes a person's mental readiness in dealing with every obstacle faced by maximizing the capabilities they have. Good self efficacy will also help students in understanding themselves so that they will be able to show the positive value or strengths they have to get the job they expect [6].

University graduates must be able to produce quality educational staff in accordance with the needs of the world of work in the 4th industrial era, including UNESA graduates. The Department of Economic Education is one of the majors at UNESA that produces educational staff at the level of vocational secondary education or commonly known as Vocational High School (VHS). In addition to producing graduates as educational staff, the Department of Economic Education at UNESA also produces graduates who work in various fields, such as in finance and banking, entrepreneurs,

and other fields. The graduates also argued that to be able to get a job needed a confidence and highlight the capabilities and competencies possessed to convince employers so that the ability of self efficacy is also needed.

Based on the above conditions, the readiness of UNESA Department of Economic Education students needs to be evaluated to determine the condition of students as prospective graduates in facing the demands of the workforce. Therefore, this study aims to describe the readiness of students of the Faculty of Economics, Surabaya State University, especially in the Department of Economic Education in dealing with the world of work in the 4th industrial era when viewed from self efficacy. From various theories and previous studies regarding work readiness on the factor of self-efficacy, researchers in this study use aspects used by Utami and Hudaniah (2013), Hanani and Sukirno (2016), Teng, et al (2019) which have been modified in accordance with research needs consisting of moral and the teacher's code of ethic's aspect, human value's aspects, and self-ability's aspect [4] [7] [3]. The results of this study are expected to provide a picture of the readiness of UNESA students majoring in Economic Education in the face of the world of work in the 4th industrial era. Furthermore, the results of this study can also be used to find solutions and actions that can improve the competitiveness of UNESA graduates to face the world of work.

## II. METHODS

The type of this research is quantitative descriptive research. The study population was all students majoring in Economic Education at Surabaya State University (UNESA) of 2,560 students. The sample used was 348 students who were determined using simple purposive sampling technique. The sample criteria used are students majoring in Economic Education 4-8 semester assuming students have obtained an educational course and in the near future will face the world of work so that the sample is considered relevant to the research objectives. Data collection is done by distributing questionnaires to student samples to produce primary data from research subjects. Based on various theories and previous research, this study uses research indicators regarding work readiness, namely self-efficacy. These indicators can be explained as follows:

TABLE 1. THE LATTICE'S QUESTIONNAIRES ABOUT SELF-EFFICACY

No.	Aspect	Indicator
1	Moral and ethical codes of teacher	Control of emotions
		Responsible
		Professionalism
		Self management
		Communication manner
2	Human Value	Tolerance of differences
		Ability to work in teams
		Work hapiness
3	Self-ability	Cognitive and foreign language skills
		Abilty to face the stressfull conditions
		Ability to overcome problems
		Abilty to reach targets
		Abilty to grow motivation to achieve an outcome
		Abilty to continue learning
		Abilty to think critically

Source: Utami and Hudaniah (2013), Hanani and Sukirno (2016), Teng, et al (2019), modified by researchers.

Data obtained from the results of student surveys in the form of quantitative data so analyzed descriptively quantitative with percentage techniques. Quantitative data obtained using a Likert scale with a scale of 1-4 (not ready-very ready). Then the data obtained from the results of student surveys are then analyzed using percentage techniques. Students of the Department of Economic Education at UNESA can be said to be ready to face the world of work if the average results of all aspects in the questionnaire get a percentage of  $\geq 51\%$  so that they get a ready or very ready interpretation.

## III. RESULTS AND DISCUSSION

Based on the results of research conducted to students majoring in Economic Education at UNESA, obtained information about the readiness of students in dealing with the world of work seen from self-efficacy which is divided into three aspects, namely moral and ethical codes of teacher's aspect, human value's aspect, and self-ability's aspect. These aspects can be explained as follows:

### A. Moral and Ethical Codes of Teacher's Aspect

Student readiness on the moral and teacher's code of ethics aspect can be described as follows:

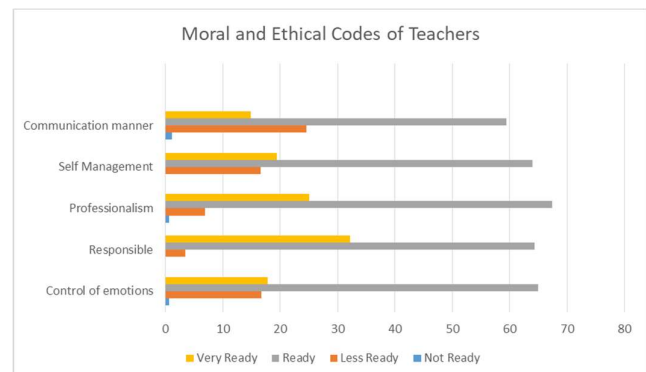


Figure 1. Student's Moral and Ethical Codes of Teachers

Based on the figure above, it can be seen that in the indicators of emotional control, the readiness of students in the highly prepared category was 19.4%, 64% ready, and 16.6% less ready. This shows that 83.4% of students have prepared themselves in controlling emotions to face the world of work. Every learning takes place, the teacher must control himself in order to teach well. Students learn 8 basic teaching skills, which in every aspect of these skills require good self-control so that during the course they can be easily accepted by students in the future.

Then, in the indicator of responsibility, students in the highly prepared category were 32.2%, 64.4% ready and 3.4% less ready. This shows that 96.6% of students have prepared themselves to behave and behave responsibly to face the world of work. Responsibility is part of the characterized behavior expected by the curriculum currently used in schools, namely the Kurikulum 2013.

In the professionalism indicator, the readiness of students in the highly prepared category was 25.1%, ready in the category was 67.4% and less ready was 0.6%. Based on these data it can be concluded that 92.5% of students are ready to

face the world of work. The level of professionalism of a teacher has always been the main theme of prospective teacher students to try to work in the professional work world. These professionals can be shown with their enthusiasm so that they can master learning materials in accordance with their respective fields, make work in the form of lesson plans, teaching materials, media, and can apply learning models that are applied in the classroom or outside the classroom (practice at school). In addition, changes in character and ethical behavior such as teachers are desired in the Kurikulum 2013 which are currently in force.

In self-management indicators, the readiness of students in the highly prepared category was 19.4%, 64% ready, and 16.6% less ready. Based on this it can be concluded that students are ready to face the world of work as much as 83.4%. Students are ready because they have the ability to manage themselves better after they take educational courses. In addition, according to them that with technological and social developments, they learn a lot to manage themselves in order to prepare to become future professional teacher candidates. However, as many as 16.6% of students were not ready to face the world of work because some of these students were still unable to face the era with self-management.

Furthermore, the indicators of how to communicate S1 Economic Education students, Department of Economic Education, Faculty of Economics, UNESA with the category of very ready at 14.9%, ready at 59.4%, less ready at 24.6% and not ready at 1.1%. From these results it can be concluded that students who are ready to face the world of work from the indicators of how to communicate by 74.3%. Students have prepared themselves by communicating well in the context of facing the 4th industrial era. Good ways of communicating have been taught in learning courses including the Fundamentals of Education, Innovative Learning I and II, Vocational Studies in Accounting Vocational, and several other subjects. To provide stability on how to communicate with students, students are required to take the Job Training courses held at partner schools. Therefore students are ready to face the 4th industrial era by changing the way they communicate in order to prepare to become a good teacher.

Based on the survey results on the moral and ethical codes of teacher's aspect above it can be said that students majoring in Economic Education at UNESA have a good level of readiness. This is evidenced by as much as 86.04% of students of the Department of Economic Education already have a good readiness in controlling emotions, responsibilities, professionalism, self-management, and how to communicate. A good level of self efficacy in the moral aspects and code of ethics of teachers can help teachers and prospective teachers feel they have good and professional competence in their fields [8].

### B. Human Value's Aspect

Students' readiness on aspects of human values can be described as follows:

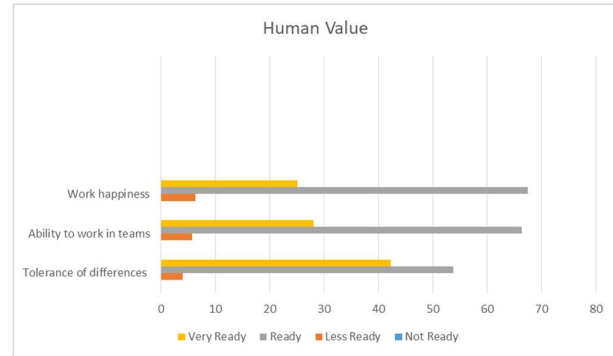


Figure 2. Student's Human Value

Based on Figure 2, it can be explained that the indicator of tolerance for differences, the readiness of students in the highly prepared category was 42.3%, 53.7% ready, and less ready by 4%. This means that 96% of students are ready for differences when working as teachers in the 4th industrial era in terms of tolerance. Tolerance is needed by students because when they enter the workforce they will meet different types of people with different personalities and proposals. They will be required to be able to adapt to the work environment wherever they are placed.

Then in the indicator of ability to work with a team, the readiness of students in the very prepared category was 28%, 66.3% ready, and 6.3% less ready. Its means that as much as 94.3% of students are ready to work to become future teachers in the 4th industrial era from indicators of the ability to work with teams. The ability to work with a team can be demonstrated by student behavior in order to improve the professional skills of the teacher. In other professional fields, the ability to work in teams is necessary because there is a lot of work related to many people or work that must be completed in a team.

In the indicator of happiness at work, the readiness of students in the highly prepared category was 26.3%, 67.4% ready, and 6.3% less ready. Its means that 93.7% of students are ready to face the world of work from the aspect of work happiness. The factor that supports the success of work is a happy heart. The students perceive that they are ready to face the 4th industrial era by preparing a happy heart to work as a teacher and various other professions in the future.

Based on the survey results on the aspects of human values above, it can be said that students majoring in Economic Education at UNESA have a good level of readiness. This is proven by as much as 94.66% of students of the Department of Economic Education already have good readiness in tolerance to differences, the ability to work in teams, and have happiness at work. Self-efficacy has a positive influence on teamwork because high self-efficacy is an important mediator of the relationship between emotional intelligence and team cohesion resulting in increased performance and participation in teams [9]. Self efficacy also brings a great psychological impact in making someone comfortable in their work so that it can cause a feeling of happiness at work [10].

### C. Self Ability's Aspect

Readiness of students in the aspect of self ability can be described as follows:

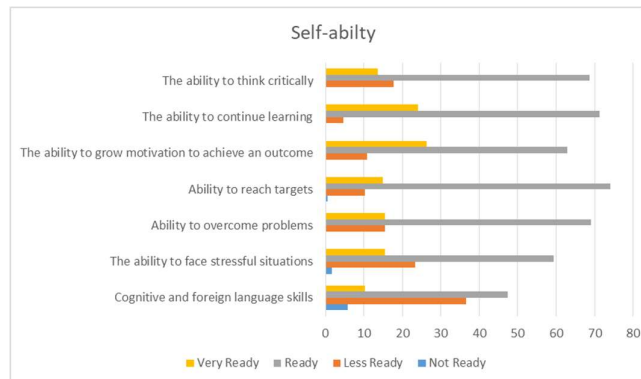


Figure 3. Student's Self-ability

Based on figure 3, it can be seen that the indicators of cognitive abilities and foreign languages, the readiness of students in the highly prepared category is 10.3%, 47.4% ready, 36.6% less ready, and 5.7% not ready. This shows that 57.7% of students have good readiness in foreign languages. Foreign language skills of students majoring in Economic education at UNESA are still relatively low. Many students are still not ready to face the industrial era 4.0 because many of them have difficulty in applying language that is not normally used in daily life. The value of foreign languages that can be seen from their TOEFL scores is still low. Only a few passed directly on the TOEFL Test. However, 57.7% were ready to face the 4th industrial era on the grounds that students study continuously to be able to speak a foreign language.

In indicator of the ability to face a stressful situation, the readiness of students categorized as very ready by 15.4%, 59.4% prepared by category, 23.4% less prepared and not prepared at 1.7%. This means that as many as 74.8% of students are ready to face a stressful situation. The situation faced in the world of work is different from the situation when taking lectures at the University. Students have prepared various efforts to deal with the situation in the future. Various efforts according to them are to learn more from various conditions and learning situations in the future. Learning not only from lecturers, books, friends and from the internet, but from all sources that can be used to improve their ability to deal with stressful situations.

On the indicator of ability to overcome problems, the readiness of students in the highly prepared category was 15.4%, ready was 69.1%, less ready was 15.4%. This means that as many as 84.5% of students are ready to face problems in the world of work. Various problems that will occur in the future according to them are problems that must be faced so that they are ready for working conditions in the 4th industrial era.

In the indicator of the ability to reach the target, the readiness of students in the very ready category is 14.9%, 74.1% ready, 10.3% less ready, and 0.6% not ready. From this it can be concluded that 89% of students are ready to reach the target of becoming teachers in the 4th industrial era. The ability to achieve the target can be demonstrated by their activities during lecturing.

In the indicator of the ability to grow motivation to achieve an outcome, the readiness of students in the very prepared category was 26.3%, 62.9% ready, and 10.9% less ready. So

from this it can be concluded that as many as 89.2% of students are ready to foster motivation to achieve results. Students are ready to face the 4th industrial era with high motivation.

On the indicator of the ability to continue learning, the readiness of students in the highly prepared category was 24.1%, 71.3% ready, less prepared by 4.6%. This means that 95.4% of students are ready to face the 4th industrial era by continuing to study. Learning in the sense of not only learning about subject matter related to future work as prospective teachers, but learning in any case that can be useful in the future according to their professional field.

In the indicator of critical thinking ability, the readiness of students in the very prepared category was 13.7%, 68.6% ready, less prepared by 17.7%. One of the abilities expected in the 4th industrial era is the ability to think critically. Based on the above, it is concluded that as many as 82.3% of students are ready to face the 4th industrial era as a professional teacher with critical thinking skills. The effort prepared in the ability to think critically is the existence of learning activities by increasing student activity. In learning, lecturers and students try to improve this ability in various ways including implementing learning with a problem based learning model, project based and discovery based. Activities that can improve this ability in the form of reasoning ability with methods of discussion, demonstration, simulation, practice and analysis both in the lecture room and activities outside of lectures.

Based on the survey results on the aspects of self-ability above, it can be said that students majoring in Economic Education at UNESA have a good level of readiness, even though the indicators of foreign language ability of students are still low. This is proven by as many as 81.84% of students of the Department of Economic Education already have good readiness in cognitive abilities and foreign languages, the ability to deal with stressful situations, the ability to overcome problems, the ability to achieve targets, the ability to grow motivation to achieve an outcome, the ability to continue learning, and critical thinking skills. Whereas cognitive ability and good foreign language affect the level of self-efficacy of students [11]. This is because foreign language skills have become one of the most needed soft skills in the world of work in the current 4th industrial era. Self-efficacy is also able to increase individual resources and make it easier for employees to cope with stressful situations [12]. In addition, self-efficacy gives encouragement to students to develop their ability to adapt to changes in the environment and give rise to a desire to continue learning [13].

#### IV. CONCLUSION

Based on the above research results it can be concluded that students majoring in Economic Education at UNESA have good job readiness in facing the world of work in the 4th industrial era when viewed from the factor of self-efficacy. In moral and ethical codes of teacher's aspect as much as 86.04% of students already have excellent readiness in dealing with the world of work. In the human value's aspect as much as 94.66% of students already have excellent readiness in dealing with the world of work. In the self-ability's aspect as much as 81.84% of students already have a very good readiness in dealing with the world of work.

The average student stated that he already had enough to face the world of work from the lecture process that he had obtained so far. However, what needs to be considered is the

low level of foreign language ability of students. Students still feel that they are not ready with the demands of the use of foreign languages which are starting to be demanded by the workforce today. Therefore, coaching and mentoring as a potential scaffold are needed to create an appreciation of the value of self-efficacy and it is suggested that the active development of individual self-efficacy through mentoring and coaching relationships can function to ensure that students have sufficient self-efficacy in dealing with the world work [14].

The results of this study can be used as an evaluation material to improve the learning process and also strengthen in areas that still have low readiness, such as indicators of foreign language proficiency. Thus the aim of the Department of Economic Education at UNESA to produce professional educators can be realized with an increase and strengthening of the hard skills and soft skills of prospective graduates. This research is limited to the object of research which still includes students of the Department of Economic Education at UNESA. The next researcher is expected to be able to expand the object of research so that it can produce information about student readiness at the faculty level, university level, or even the national level.

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