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& Entrepreneurship

Economic Education and Entrepreneurship Learning Innovations

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**Welcome to
International Conference on Economic Educational and Entrepreneurship (ICEEE)
2016 at Universitas Negeri Surabaya**



Drs. Eko Wahjudi, M.Si
Dean, Faculty of Economic
Universitas Negeri Surabaya
Indonesia

It is an honor to have you joint this conference, with theme **Economic Education and Entrepreneurship Learning Innovation**are, this conference jointly organized by Faculty of Economic, Universitas Negeri Surabaya with ASPROPENDO, and the 1st annual conference to celebrate the 5th anniversary of Asosiasi Profesi Pendidik Ekonomi Indonesia (ASPROPENDO).

The goals of this conference are to give economic educators the opportunity to share ideas and networks while working together on economic education and entrepreneurship learning innovation for future exchange internationally. It is anticipated that the exchange of the ideas and research findings will contribute greatly to future generations and economic education.

On behalf of the Faculty of Economic, Universitas Negeri Surabaya, I would like to express my gratitude and my sincere appreciation to our co-host institution, the keynote speakers, guest participants and the organizing committees for their efforts. I would like to thank to all delegations and participations that come to the part of this conference.



Dr. Waspodo Tjipto Subroto, M.Pd

Co-Even Director I
Universitas Negeri Surabaya
Indonesia

Assalamualaikum Wr. Wb.

Honorable, the rector of State University of Surabaya, Prof. Dr. Warsono, M.S

Honorable, the Dean of Faculty of Economic of Universitas Negeri Surabaya, Drs. Eko Wahjudi, M.Si.

Honorable, the Head of ASPROPENDO, Dr. Sugiharsono, M.Si

Respectable, all speakers of the international conference,,

And all of the audiences who are very happy.

Thanks to Allah S.W.T who has been giving us bless and mercies so we can be here together in healthy condition. Then, let us greet and pray to our beloved prophet Muhammad S.AW who brings us the path of light and leave the darkness in this life.

We are glad that the idea to hold this International Conference get good responses from UNESA campus, ASPROPENDO and from Economic Educational both from Indonesia and aboard. Alhamdulillah, the participation of this conference has reached about 250 participants.

Ladies and gentleman, in this conference, we have keynote speakers who come from Indonesia and aboard, they are:

Prof. Dr. Ady Soejoto, M,Si (Indonesia)

Prof. Dr. Hitesh Shukla (India)

Prof. Dr. Ruswiati Suryasaputra (Malaysia)

Dr. Maria Elena David Cruz (Phillipine)

Dr. Moro Kadjo Daniel Bitty (Cote d'Ivoire--West Africa)

And guest participants:

Prof. Dr. Vishal Khasgiwala (India)

Prof. Dr. Chetan Lakhani (India)

The theme of this conference is the ECONOMIC EDUCATION AND ENTREPRENUERSHIP LEARNING INNOVATION. The purpose of this conference is to share the knowledges from all sides

The 1 st International Conference on Economic Education and Entrepreneurship 2016

of the world about how to make a better Innovation Learning in Economic Education. We are educator and we are should give changes in innovation learning in Economic Education.

We thank to:

Universitas Negeri Surabaya

Faculty of Economic of Universitas Negeri Surabaya

ASPROPENDO (Asosiasi Profesi Pendidik Ekonomi Indonesia)

Audience, participant, and proceeding speakers.

And all who support to hold this conference.

Thats all, thanks for your attention, we apologize if there is any mistakes. Enjoy the conference. Hope this will be useful for all of us.

Wassalamualaikum wr.wb



Dr. Sugiharsono, M.Si
The Chairman ASPROPENDO
Universitas Negeri Yogyakarta
Indonesia

Assalamualaikum w.w.

Give thanks to the God Almighty for His mercy and bless, today we are here to hold the 'Mukernas' (a national work forum) and the ASPROPENDO International conference. In this moment 'Mukernas' will discuss the ASPROPENDO follow-up work program which established in UNS Surakarta and Universitas Jambi. Meanwhile, the international seminar is taking the theme "Economic Education and Entrepreneurship Learning Innovation" (ICEEE). The theme was taken accordance to the demands of the development of education and entrepreneurship, as well as national and regional economic developments in Asia in the globalization era.

This Mukernas and ICEEE were hold by the cooperation of some university; UNESA Surabaya, UNS Surakarta, UKSW Salatiga, UNY Yogyakarta, UPI Bandung, East Java ASPROPENDO Board, and the Central Board ASPROPENDO. Therefore, on behalf of the Central Board ASPROPENDO I would like to thank for all the sacrifices, especially Faculty of Economics UNESA Surabaya for the willing to host and manage the ICEEE and Mukernas ASPROPENDO 2016. Thanks to the Dean of FE UNESA.

More than 40 universities is participated in Mukernas and the International Conference on Economic Educational and Entrepreneurship 1st 2016 as organizers and participants. I would like to say thanks for the cooperation. The role of professional associations, including ASPROPENDO is important, especially for the development of economic education programs, and the accreditation of educational institutions. Therefore, let's support ASPROPENDO as an educator profession forum in Indonesia. *Insyallah* with our support ASPROPENDO will be developed accordance to the demands of the development of education in Indonesia.

I would like to express my gratitude to Prof. Dr. Warsono, M.Hum as Rector UNESA Surabaya who have allowed and facilitated the International Conference on Economic Educational and Entrepreneurship 1st 2016, and his participation. Thank to Prof. Ruswiati Suryasaputra (Universiti Utara Malaysia), Prof. Hitesh Shukla Saurasthra (University Rajkot, Gujarat India), Maria Elena Dela Cruz David, Ed.D. (Tarlac State University Philippines), Dr. Daniel Moro Kadjo Bitty (Assistant Chairman Dakar Business School), and Prof. Ady Soedjoto, SE., M.Si. (UNESA Surabaya) as keynote speakers. Thanks to Dr. Wapodo, M.Sc. as the Committee Chairman for coordinating the Mukernas and ICEEE. Infinite thanks to all the organizers and participants who have participated in the Mukernas and International Conference on Economic Educational and Entrepreneurship 1st 2016 in UNESA Surabaya. Hopefully this seminar gives us benefit in order to face the economic education in globalization.

Wassalamualaikum w.w.

The 1st International Conference on Economic Education and Entrepreneurship 2016



Prof. Dr. Ady Soejoto, M.Si
The Board Experts Aspropendo
Universitas Negeri Surabaya
Indonesia

Bismilahirrohmanirrohim
Assalamualaikum Wr, Wb

Welcome to the International Conference on Economic Educational and Entrepreneurship 1st 2016,

Honorable;

The rector of State University of Surabaya,

The Dean of Faculty of Economic of Universitas Negeri Surabaya,

The Chairman of the Asosiasi Profesi Pendidik Ekonomi Indonesia (Aspropendo),

And speakers who have agreed to attend this conference

The Asosiasi Profesi Pendidik Ekonomi Indonesia (Aspropendo) members, audiences and participants that enliven this conference.

Give thanks to the God Almighty, for all the blessings and joy, so we can attend this International Conference on Economic Educational and Entrepreneurship 1st 2016.

Ladies and gentlemen,

In this year, Asosiasi Profesi Pendidik Ekonomi Indonesia (Aspropendo) celebrates its 5th anniversary. This celebration took place in Surabaya, the same city where the organization was founded in July 2011. In this 5 years Aspropendo consistent annually organizes scientific activities such as workshops, seminars and call paper, held in various universities in Indonesia who joined as a member of Aspropendo.

In this celebration, Aspropendo determined to hold international seminar, which will be an annual event for Aspropendo. The Agenda called International Conference on Economic Education and Entrepreneurship (ICEEE). Next year, this agenda will be continued and one of universities in Indonesia, who joined as a member of Aspropendo will get the honor to hold the conference.

This International Conference on Economic Education and Entrepreneurship 1st 2016, were attended by more than 153 speakers from all over Indonesia and other countries. A 'Mukernas' were held in the previous day, and attended by all Aspropendo members throughout Indonesia at 'Papilio Hotel'. I would like to express my gratitude and my sincere appreciation to all who have supported the 'Mukernas' and this International Conference on Economic Education and Entrepreneurship 1st 2016, and support Aspropendo to carry its vision and mission. Aspropendo will continue to strive and participate in advancing education, especially economic education in Indonesia. The existence of Aspropendo will be challenged by the time. The creativity and innovation from all members will answer its challenges.

That's all, and 'Dirgahayu ke 5 Aspropendo, Dari Aspropendo Untuk Indonesia'

Thank you, Wassalamualaikum Wr. Wb

PATRONS

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Prof. Dr. Ruswiati Suryasaputra from Universiti Utara Malaysia
Prof. Dr. Hitech Shukla from Saurashtra, University Rajkot, Gujarat India
Dr. Moro Kado Daniel Bitty from Dakar Business School
Dr. Maria Elena David from Talac University
Prof. Dr. H. Ady Soejoto, S.E., M.Si from Universitas Negeri Surabaya

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INDEX

Welcome Speachs.....	ii
Patrons	vii
Index	lxiv
Innovation In Teaching Learning and Assesment In Economic Education.....	1
The Influence Of Word Of Mout Toward Consumer Attitude Hendra Riofita, MM.....	2
Development Of Craft And Entepreunrship Teaching Materials At Craft Textile Material For Class X Smk Students Based Curriculum 2013 In Smkn 2 Jambi Farida Kohar, Julianti. Simatupang.....	14
Teaching According To The Manner Of The Brain Learning Denis Satya Wardana.....	39
Economic Environmental Learning For Increasing Economic Morality (Case Study Senior High School “Green School” In Demak City) Khasan Setiaji, Widiyanto.....	45
Business Letter Writing Skills Improved Learning Through The Inquiry Method In The Administration Office Of Education Students Faculty Of Economic Unesa Siti Sri Wulandari.....	56
The Application Of Whole Brain Teaching And Cooperative Learning To Overcome Learning Disability And Planting Character Education Nita Oryza Tzuroyya.....	66
Realizing The Economic Studies That Are Active, Innovative And Inspiring In Students Of Sma Negeri 1 Kuaro Nurullah Baha Udin	74
The Establisment Of Character Education Toward Thes Tudent As A Strategy In Dealing AEC Lusia Insiroh	84
Self Regulated Learning of Senior High School Economic Teachers Diah Dinaloni	90
Utilizing Authentic Problem Based Learning Method As A Part Of Contextual Teaching And Learning Model For Improving Students’ Achievement In Enterpreneurship Subject Munawaroh, Nanik Sri Setyani	97
Creativity And Teacher Innovation In Order To Educate Nation Child Banowati.....	109

Humanizing the Classroom Learning Model: An Effort to Increase the Personal Skill of the Students Widya Dorestiawati	116
Factors Analysis That Affect The Timely Completion Of Studies And The Implications Toward The Quality Of Graduates Sumartini, Disman	124
Implementation Model of Problem Based Learning (PBL) to Increase Student Understanding of the Accounting Education In Chapter Income Tax 21 Rochmawati1, Suci Rohayati	137
Impact Of The Use Of Student Work Sheet Cost Accounting To Learning Outcomes Of Education Accounting Department Faculty Of Economics Unesa Joni Susilowibowo, Han Tantri Hardini	143
Internalization Of Rationality And Morality In Economic Learning Dian Eka Prasastianta	151
The Effect Of Applying The Learning Cycle 5-E On Student Learning Outcomes On Economic Subject In SMAN 8 Jambi Rosmiati	159
The Importance Of The Understanding Uud 1945 Article 33 Paragraph 1 In Learning Of Economic Yunesia Pramesthi	166
Learning Quantum Learning-Based Hard Skill And Soft Skill Development In The Cultivating The Spirit Of Entrepreneurship Imroaturo Rosida	170
Teaching Innovation With Cooperative Learning Jigsaw To Improve Student Learning Outcomes On The Subject Introduction To Economic And Business Class X Administrative Office 1 Smk Pawiyatan Surabaya Dedy Rahadian	178
Integration Of Economics Education On Student Routines: Implementation Pumping Student Learning Models Masnurul Hidayat	188
Sociodramas Application Method In The Subject Of Accounting Class Xi Ips To Improve Students' Understanding (Studies In Class XI IPS Madrasah Aliyah At- Taqwa Cabean) Mohammad Irbabullubab	198

Entrepreneurship Education in Higher Education's Model Through Sustainable Learning Process Renny Dwijayanti	208
Implementation Of Advance Organizer Model To Increase Social Studies Learning Outcomes In Economic Education Sriwijaya University (Unsri) RiswanJaenudin, Edutivia Mardetini	215
Efforts To Improve The Understanding Of Economics Concept On Microeconomics Theory Introductory Subjects Through Success Learning Cone Theory Albrian Fiky Prakoso, Ni'matush Sholikhah	228
Implementation Of Learning Snowball Throwing Method To Improve Student Learning Outcomes Of Operation Management Subject Novi Marlana	238
Retno Mustika Dewi	243
Effectiveness Of The Use Of Cooperative Learning Model Make A Match On Course Learning Theory Durinta Puspasari	250
Perception Of Students Snowball Throwing Learning Model On Course Introduction To Science Of Administrative And Management Durinda Puspasari	254
Effect of Flip Classroom In The Students Learning Vishal Khasgiwala	258
Prakerin Effect Of Readiness Program Skills Marketing Students In Surabaya Smkn 10 Tri Sudarwanto	266
Problem Based Learning On The Course Law Business Novi Trisnawati	289
Implementation Of Cooperative Learning On The Course Economy Indonesia Novi Ilham Madhuri	295
Experiential Learning Approach, Is The Solution For The Study Of Organizational Behavior. Relating To The Readiness Of Human Resources To Asean Economic Community Brilliant Rosy	301
A Planning Design of Micro-Teaching Course (Study From University of Riau-Indonesia) Gimin, Sri Kartikowati, Gani Haryana	308

Effect Of Application Savi Approach Aided Audio Visual Media In The Problem-Based Scientific Learning On Student's Competence In Economic Subject Mohammad Syamsul Aripin	318
Application of the Learning IPS Model Live To learning outcomes Student at Public Junior High School 12 Madiun City Sudarmiani, Agus Terlaksana	323
Application OF Problem Based Learning Model IN Scientific Approach TO Improve Critical Thinking Skills AND SOFTSKILLS Students Khoiriyah Ningsih	329
The Efforts To Improve Skills Up A Business Plan Through E-Learning In Entrepreneurship Course At Economic Education FKIP Jambi University Nurmala Sari	339
Interactive Learning Media Development By Using Aurora Persentations Program To Increasing Student Learning Outcomes In Social Science Subjects At Smk 5 Jambi City Novia Sri Dwijayanti	349
Impact Of Entrepreneurship Learning Toward Entrepreneurship Attitude Of Vocational High School Students In Surabaya Raya Sulistyowati	366
The Influence Of Social Attitudes And Learning Activities For Learning Achievment Of Social Science Subject At Viii Class Mts Mathlaul Huda Malang Illa Uma'rifah	372
Application Of Quantum Learning Model In Improving Student Learning Motivation To Study In Economic Madrasah Aliyah Fathul Hidayah Lamongan Basuki Rohmad	382
Innovative Learning and Authentic Assessment in the Framework Creating Effective Study on Senior High School (SMA / MA) Ahmad Sirojudin Abbas	393
Improving Students' Learning Activity And Outcomes Of Production Management Lecturing Through Contextual Teaching Learning Model Sumarno	403
Evaluation Of The Application Of Student Activity Sheet Based On Contextual And Problem Solving In The Course Introduction To Microeconomics Theory Dhiah Fitriyati, Rifqi Evel Abdullah	412
The Revitalization of System for Creating Professional Teacher Endang Sri Rahayu	418

The Influence Of Spiritual Attitudes , Motivation To Learn , And Boarding Culture On The Learning Achievement Of Economic Subjects Kustamaji Nurhasyim	431
Application of Mind Mapping Learning Method On Materia Reconciliation On Accounting Introduction II Course To Improve Student Learning Outcomes Sri Umi Mintarti W	440
The Application Of Mangrove Forest For Educational Sustainability Development (Esd)-Based Contextual Teaching-Learning Jun Surjanti	446
Knowledge Management Practices In Indonesian Educational Organisations: A Case Study In SMPN 2 Bima City Zainuddin, Mukhlis, Ahmad Sandi	465
Empowerment Society By Entrepreneur	475
The Contribution Of National Program For Community Empowerment On Urban (PNPM-MP) To Increase People's Economic In Pekanbaru Akhyar and Nurasmawi	476
The Model Development Of Non-Formal Economic Education Program For Shoes Small And Medium Enterprises Workers In Prajurit Kulon Sub-District, Mojokerto Norida Canda Sakti	489
Empowerment Of Women Farmers Group In Order To Grow The Spirit Of Entrepreneurship Through Zone Of Sustainable Food Houses Program Inpaser Regency Of East Kalimantan Sulistiarti	496
The Strategy Of Development Micro Small And Medium Enterprises (Msmes) As Booster Of Economic Growth In Mojokerto Windri Sulistiya Ningrum	504
The Implementation of Achievement Motivation Theory by David C. McClelland as the Effort to Shape Productive Behavior Meriena Putri Ajiwibawani	512
The Role Of Fisher-Women Entrepreneurs Tgenerate Family Incomecase In Sendang Biru Coast, South Malang Alfiana Yuli Efiyanti	520
Coastal Women As Micro Entrepreneur Who Exploit Mangrove Forests With Green Economy And Blue Economy Evi Trisni Budi Utami	531

The Contribution Of Entrepreneurship Education In Character Development And Entrepreneurship Intention Ruri Nurul Aeni Wulandari	539
Enterpreneurship Values Of River Scavengers At Lok Baintan Area Dwi Atmono, Sri Setiti, Reza, Sri Setiti, Muhammad Rahmattullah, Rizky Maulana	545
Empowerment Yellow Pumpkin As Local Materials Snacks (Donut) In The Tuban Community Ridaul Innayah, Yosia Dian P.W	552
Growing Spirit Of Entrepreneurship For Young Generation	559
The Effects of Creativity, Risk-Taking Propensity, Entrepreneurial Education, and Entrepreneurial Motivation towards Vocational School Students' Entrepreneurial Intention in Jakarta Fachrunnisa, Usep Suhud, Dita Puruwita	560
Growing Entusiasm Of Entrepreneurship Of Student Through True Story Of Successful Entrepreneurs Nur Aini Anisa	570
The Influence of Personality Traits, Attitude, Entrepreneurial Education and Self-Efficacy toward Entrepreneurial Intention among Vocational School Students in Jakarta Ridwan Sobari, Usep Suhud, Dita Puruwita	574
Do Vocational School Students Have An Entrepreneurial Intention? Extending the Theory of Planned Behaviour Jepen Zenal Arifin, Usep Suhud, Dita Puruwita	584
Internalization the Eight Hidden Values of a Network Marketing Business Robert T. Kiyosaki to Establish Financial Quotient for the Young Generation Vitria Puri Rahayu	594
Developing Entrepreneurial Character and Interpersonal Skill Through Contextual Instruction Angga Irfan Farid	603
Role Of Emotional Intelligence Form Students Creative And Innovative Nindya Hendra Anggryani	609
Developing Values Of Entrepreneurship Through Student Entrepreneurial Program Nur Fahmi Winawati	615
Urgency Of Character Education And Entrepreneurship Education In Millennial Generation As A Strategy In Facing Mea	

Evi Aulia Rachma	622
Creative And Innovative Spirit Form Students Through Education In Entrepreneurship Agustin Ayu Rizki Diansari	629
Urgency Spiritual Intelligence In Forming The Superior Entrepreneurial Spirit Bima Harya Laksmna Aryana Putra	636
Cultivating The Entrepreneurial Spirit of Students Through Character Education Adinda Indra Cipta Andini	642
Contribution To Soft Skills In Building Entrepreneurial Success Tiffani	649
Economic Transformation Of Mineworker Of Sulfur Evaluated From Education Of Economics In Ijen Mount Banyuwangi Aliya Fatimah	656
The Effectiveness of Students Entrepreneurship Program (PMW) to Created Young Entrepreneur Ainul Ulumiyah	666
Structural Equation Modelling of Social Norms, Locus of Control, Education, and Entrepreneurial Motivation of Vocational High School Students in Jakarta Andia Armelita, Usep Suhud, Tjutju Fatimah	671
The Influence of Family Support, Economic Opportunity, Innovativeness, Entrepreneurial Education, Entrepreneurial Motivation toward Entrepreneurial Intention among Vocational School Students in Jakarta Anwar Khoiruddin, Usep Suhud, Dita Puruwita	679
Growing Spirit Of Entrepreneurship The Young Generation Henny Sri Astuty	689
Effect Of Knowledge Of Entrepreneurship And Self- Efficacy Interest In Entrepreneurship Motivation Students Through Fkip Unirow Tuban Yudi Supiyanto, Henny Sri Astuty	697
E-Commerce For Beginners And Young Entrepreneur Veni Rafida	715
Creative Economy Sector Development: Alternative Solutions Reduce Unemployment Young Age in Indonesia. Dhahlia Achmad	722
Entrepreneurship Education Toward Entrepreneurial Intentions Of Vocational Students Aniek Hindrayani, Budi Wahyono, Inda Fresti Puspitasari	730

The 1 st International Conference on Economic Education and Entrepreneurship
2016

Teacher's Entrepreneur Literacy for Learning Development to Suit Future Student's Need in The Competitive Environment Harti	741
Islamic Entrepreneurship Education Case Study at Sekolah Alam Ar Ridho Semarang Kardoyo, Ahmad Nurkhin	746
Firing Up Excellent Entrepreneur Embryos In Semarang State University, Indonesia Margunani, Isti Hidayah, Inaya Sari Melati	762
The Implementation Of Work Practices Industry To Build Working Readiness Vocational High School Students Moh. Wildan Robih	771
The Implementation Of Csr Exxon Mobil Program As The Development Of Entrepreneurship Spirit Toward Young Generation Prevista Fakhrun Nisa'	776
Throught Cultural Gatherings Foster Social Entrepreneurship In Young People Ning Faidah	782
Growing Passion, Design Thinking, And Entrepreneur In Mindset Among Student Kodam Didik Kurniadi	789
The Influence Of The Field Trip Activity To Motivate Entrepreneurship Students Of Economic Education Study Program At Faculty Teacher Training And Education Of Sriwijaya University Dewi Koryati , Firmansyah , Edutivia	797
Based Entrepreneurship School, Efforts Economic Empowerment Ummat Arifin	804
The Influence of Preceived Feasibility, Prechived Feasibility, Preceived Desirability, propensity to Act, Entrepreneurial Education And Entrepreneurial Motivation Towards Entrepreneurial Intention Among Vocational School Student In Jakarta Abdi Reza Utama, Usep Suhud, Rochyati	814
Factors That Encourage Students Of Economic Education Unirow Tuban Doing Online Business Candra Aeni	824
Grow Creativity And Innovation To Improve Entrepreneur Spirit In Asean Economic Community Era Dody Ragil Tri Suprpto	836

Innovation In Media And The Use Of ICT In Economic Education	841
Intention To Use E-Journal; A Unfied Theory Of Acceptance And Use Of Technology Prespective Muhsin, Ahmad Nurkhin, Hengky Pramusinto	842
Moderating Attitude To Ward On Accounting Capabiities With Self-Efficacy Agung Listiadi	854
The Usage Of ICT Through E-Learning Implementation Based On Islamic Integration In The Learning Process Dicki Hartanto	866
Developing Hot Photatoes-Based Materials Of Statistics Subject For Economic Education Students Kurnia Martikasari	880
Multimedia Use As One Media Learning In Children Herlawati	885
Gadget Smartphone Utility And Learning Facility On Economics Learning Achievement Syamsul Arifin	889
Early Age Entrepreneurship Education In The Family Soviah Nursamsi	894
Blended Learning: A Learning Method Development of e-Learning Triesninda Pahlevi	899
ICT-Based Learning in Developing the Economic Literacy of High School Students (SMA) Muhamad Iskhak	905
The Effectiveness Of Use Ict Based Learning Evaluation Tool Using Wondershare Quiz Creator In Accounting Learning Susanti, Vivi Pratiwi	915
Methods Of Cooperative Learning Stad (Student Teams Achievement Division) To Improve The Learning Results On Economic Lesson Of Students In Xi Ips 2 Class Sma Negeri 1 Pulau Laut Timur Hairatul Rahmayanti	920
Implementation of Blended Learning with Scientific Approach to Enhance Economic Studies Agustin Tri Murni	934

Implementation Of Cooperative Learning Model Problem Based Integrated Multimedia
(Tpack) Increase Students Competencies In Subject Economics
Siti Samsiah 940

Research On Economics, Accounting , Management, and Islamic Economics 948

The Existence Traditional Markets In The Future :The Analysis Of Consumer
Behavior Perspective(Study On The Progo Market, Tropodo Village, Waru
Sidoarjo, East Java)
Saino 949

Developing The Border Region Of Entikong In The Perspective Of Economy
Kardius Richi Yosada, E.T.D. Rudijanto, W.W, B.E. Soetjpto, H. Wahyono 964

An Analysis Of Education Level And Income Effect To The Number Of Poor Inhabitant
In Indonesia During Period 1996-2015
Ardiansyah 980

The Influence Of Transformational Leadership On Implementation Of Knowledge
Management By Market Culture
Satriawan Wicaksono 990

Contextualism Reinterpretation of Javanese Expression
Azhar Dwinanto 999

Model Estimates Arch / Garch Inflation In Indonesia
Lucky Rachmawati SE, M.Si 1007

The Concept Of Economic Rational Behavior In Conventional Economics Perspective
And Islamic Economics
Dzin Nuroin 1020

Tourism Religi Tomb Of Gus Dur
Masruchan 1025

Understanding Islamic School's Student To Business Sharia
Merlyawati Priyantini 1036

The Competency Of Self-Management In The Global Economy Era
Rosida 1046

Development Of Agro –Tourism Through Organizing Eco Tourism Community (Tourism
Village Lombok Kulon, Bondowoso)
Dedy Wijaya Kusuma 1060

Regional Spending Of The Regency / City In The Province Of Sumatera Barat

Citra Ramayani, Jolianis	1078
The Correlation Between The Adversity Quotient And Self Efficacy With Job Stress Of Lecturer At Faculty Of Economics In State University Of Jakarta (Case Study: Faculty Of Economics, State University Of Jakarta)	
Corry Yohana	1088
Accounting Graduated Skills Based On Indonesian Qualification Framework (Iqf): Empirical Study In Medan City	
Azizul Kholis	1099
Consumer Behavior: The Analysis of the Impulse Buying Factors In Modern Retail	
Finisica Dwijayati Patrikha	1114
Student Behaviour Consumption Trends In Economic Education Study Program State University Of Malang	
Victry Erlitha Picauly	1120
Solow Growth Model in ASEAN	
Hendry Cahyono, Ady Soejoto, Ni'matush Sholikhah	1133
Performance Analysis Of General Hospital Arifin Achmad Riau Province Through Balance Scorecard (Bsc)	
RM Riadi	1144
The Analysis of Social Capital Continuum Level at Faculty of Education and Teacher Training in Establishing the Vision, Mission and Objective of Islamic State University of Sultan Sarief Kasim Riau	
Ansharullah	1154
Application of tax amnesty in indonesia , is it necessary?	
Yosia Dian P.W	1175
Kyai Leadership Role In Improving The Quality Of Human Resources In Kyai Syarifudin Foundation Lumajang	
Dyah Kartiko Muktiningsih, Muhammad Saleh , Moh. Adenan	1182
Competence Development of Entrepreneurship in Economic Education Curriculum Based on the National Qualifications Framework Indonesia	
Bambang Ismanto	1192
Labor Demand, Minimum Wages And Competitiveness Of Indonesian Workers	
Muhammad Abdul Ghofur	1201
FMCG Product Endorser Advertising Variables Affect The Purchase Decisions And Brand Loyalty In The Community In The District Situbondo	
Nanik Hariyana, Raden Andi Sularso, Diana Sulianti K Tobing, Sudaryanto,	1210

Indonesia Prediction In Vortex Asean Economic Community (Aec) Drajat Tirtayasa, Hendro Prasetyo	1221
Sharpening Entrepreneurship With Early Financial Planning Mariana, Ika Permatasari	1235
The Creative Economic Development To Foster Competitiveness In Asean Economic Community Waspodo Tjipto Subroto	1248
Worker's Wage In Islamic Perspective A'rasy Fahrullah, Sri Abidah Suryaningsih , Khusnul Fikriyah,	1255
Mitigation And Adaptation Of Climate Change Impact On Farmers Household Welfare According To West Sumatra Agro- Ecology Zone Ansofino, Farida, Dasrizal, Afrital Rizki, Frauke Lindenstruth	1261
Qurani Perspective Of Entrepreneurship Moch. Khoirul Anwar	1271
Ict Based Employee Performance Improvement In The Region Vii Kopertis East Java Yovhan Firdiansyah,	1282
How Does Consumer Culture Effect Consumption Behavior? (Empirical Studies In Faculty Of Economics, Semarang State University (Unnes) Ade Rustiana, Kemal Budi Mulyono, Sandy Arief	1292
Trend Analysis Islamic Economy In Indonesia In The Era Aec Rachmat Sunnara	1303
“Ukm Broadcast” As Business Improvement In Network Marketing Umkm As A Crutch National Economy Lilik Ismawati	1311
Effect Of Village Fund Program Spirit Of Entrepreneurship Rural Communities In Sub District Karanggeneng Lamongan Hadi Santoso	1328
The Influence Of Cooperative Learning Model Which Has Entrepreneurship Conception Toward Cooperative Attitude In Building Business Of Senior High School Student Nanik Nuraini	1337
Theoretical Study: Banking Crisis Triggers Factor Musdholifah, Ulil Hartono	1344

The Impact Of Mining To The District Revenue And Its
Contribution To Lamongan
Abid Muhtarom1357

DEVELOPING HOT POTATOES-BASED MATERIALS OF STATISTICS SUBJECT FOR ECONOMIC EDUCATION STUDENTS

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Abstract

Information and communication technology is now growing rapidly in Indonesia. Education should be identify and make changes to improve the quality of learning. One of the way to do is by developing electronic based materials. Statistics subject is one of difficult subjects for students in Economic Education Department of Sanata Dharma University. It is necessary to develop electronic-based materials media. Electronic based materials can interesting and motivating students.

Based on this problems, the authors interest to develop multimedia based materials for Statistics subject by using hot potatoes programs. Development of hot potatoes-based materials are in the form of J-Match, J-Cloze, J-Quiz and J-Cross. Hope, it can help students understanding materials in Statistics subject.

To determine effectiveness of developing exercise by using Hot Potatoes-based materials, measure from students achievement in each exercise. The result is all of students pass each exercise with in the grade A or B or C. From that, developing hot potatoes-based materials of Statistics subject can be one of alternative to increase students achievement, especially materials of Statistics subject.

Keywords : information and communication technology, multimedia, hot potatoes, Statistics subject, Economic Education

1. Introduction

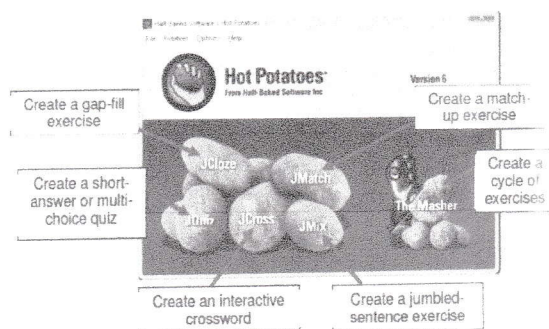
Information and communication technology is now growing rapidly in Indonesia. One of the impact of this is using high technology by our young generation. Education should be identify and make changes to improve the quality of learning. Statistics subject is one of difficult subjects for students in Economic Education Department of Sanata Dharma University. It is necessary to develop electronic-based materials media. Electronic based materials can interesting and motivating students [1].

Based on interview with students, they have problem to understand materials of Statistics subject. Statistics is one of subjects which “must pass” by students and students think that Statistics is a difficult subject, specially for student in Economic Education of Sanata Dharma University. Most of students must pass this subject more then one attempts.

Based on this problems, the authors interest to develop multimedia based materials for Statistics subject by using hot potatoes programs. Development of hot potatoes-based materials are in the form of J-Match, J-Cloze, J-Quiz and J-Cross. Hope, it can help students understanding materials in Statistics subject.

2. Hot Potatoes

Hot Potatoes is a software to create interactive activities as a cycle of interlinked webpage which work offline as well as online [2]. Hot Potatoes have several advantage, which are: (1) create cycles of different types of exercises such as gapfill, sequencing, cloze, matching, crossword which are marked by computer, (2) upload exercise to a moodle learning and have students scores recorded automatically via scorm compatibility, (3) encourage learner autonomy as students can receive immediate feedback when working independently and access resources whenever they wish on their own computer, and (4) create differentiated resources to cater for different levels and allow everyone to work at their own post [3].

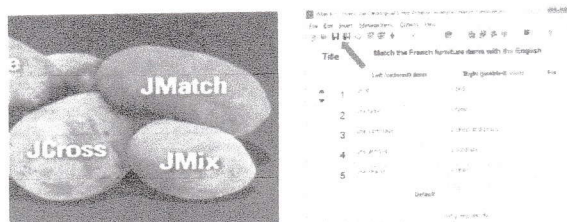


Picture 1 Hot Potatoes Display

Hot Potatoes consists of five different type of activity. They are J-Match, J-Cloze, J-Quiz, J-Cross, and J-Mix. Each activity focusing on one of a different skill or mixture of skills [4].

2.1 J-Match

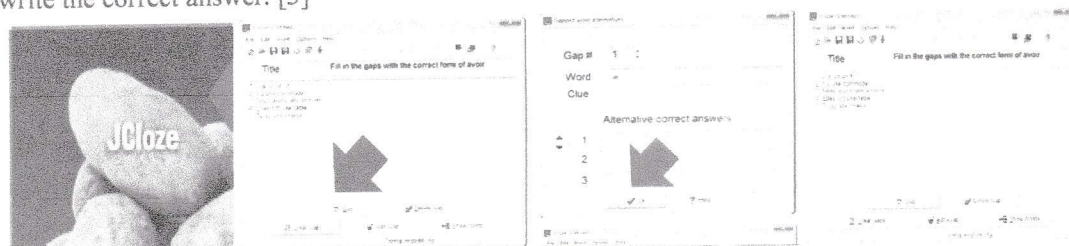
J-Match is one activity of Hot Potatoes. J-Match allows us to input a set of target then the programme generates an interactive exercise. Students can put the right answer to the left statement and have marked for feedback on their attainment. [3]



Picture 2 Example of J-Match Display

2.2 J-Cloze

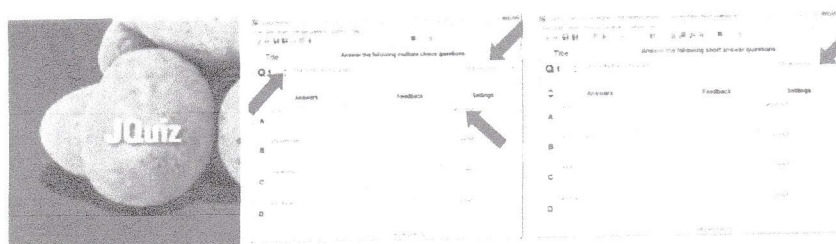
This programme is useful for students. It allows students to fill in gaps in sentences with correct answer. For different purposes, students can choose from a drop down box containing all option, or they have to write the correct answer. [3]



Picture 2 Example of J-Cloze Display

2.3 J-Quiz

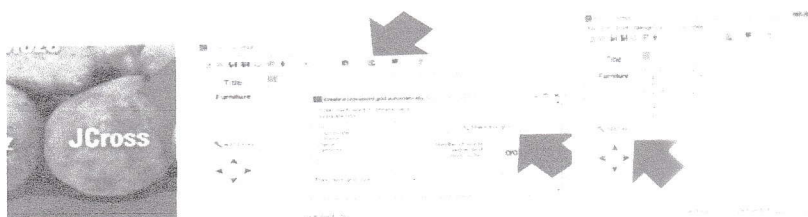
This style of exercise can be used for checking statement. Students have to choose the correct answer for each statement or question, either as multiple choice or as a free answer typed in a box. There are two or more correct versions of answer, the software allows all correct answers to be entered by maker when creating the exercise and students are not penalised for giving a correct answer that 'the computer' does not recognise letter for letter. [3]



Picture 3 Example of J-Quiz Display

2.4 J-Cross

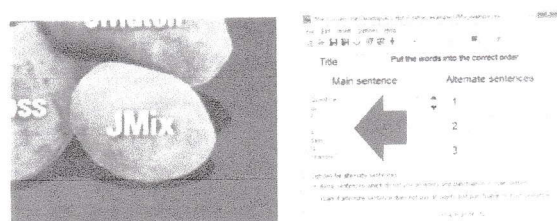
The other style of Hot Potatoes is J-Cross. J-Cross is useful for short answer. Students click on the number of square to reveal the clue, they tab in and then they can check their answer. [3]



Picture 4 Example of J-Cross Display

2.5 J-Mix

J-Mix is one style of Hot Potatoes which can combine one of style and other style of Hot Potatoes. We can input statements and programme jumbles it up. Students have to drag the word/letter/statements into the correct order on the line. [3]



Picture 5 Example of J-Mix Display

3. Developing Hot Potatoes-Based Materials of Statistics Subject

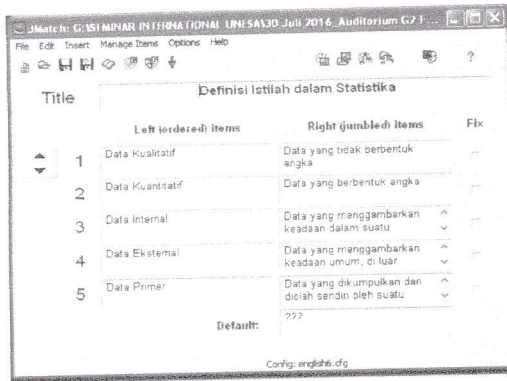
Statistics is one of subjects which “must pass” by students and students think that Statistics is a difficult subject, specially for student in Economic Education of Sanata Dharma University. Most of students must pass this subject more than one attempts. Based on interview with students, they have problem to understand materials of Statistics subject.

Based on that problem, lecturer develop design of learning progress to help students understand materials of Statistics easily. For that, lecturer develop online exercises-based on materials by using Hot-Potatoes. Online exercises can helping students improve the understanding of the materials that has been discussed at the meeting in question. Online exercises are given after the meeting. Deadline is 6 days. Students are given the opportunity twice on each exercise. Students who are not present at the meeting in question, still can take online exercise. Online exercises is helping students learn independently outside the meeting in the classroom. Online exercises are uploading by using moodle.

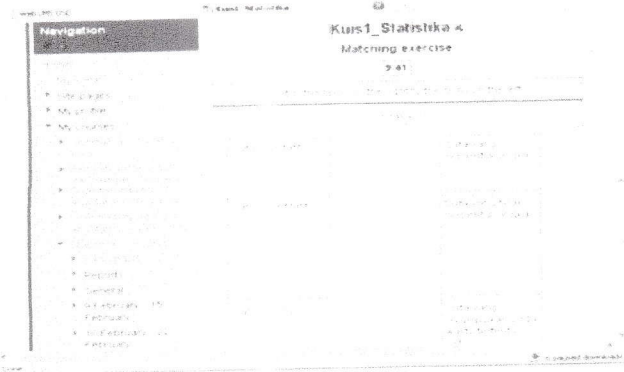
4. Result

This research is research and development and result of this research are products. Products refer to exercise-based on materials of Statistics which develop by using hot potatoes, include J-Match, J-Cloze, J-Quiz and J-Cross.

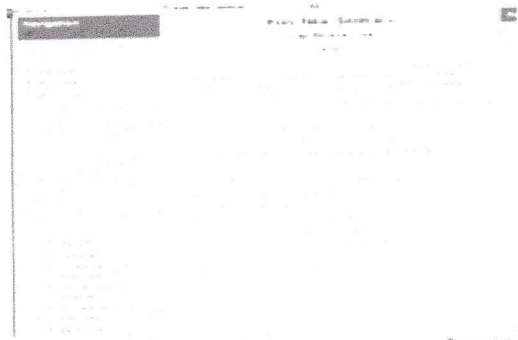
Developing hot potatoes-based materials of statistics subject, are:



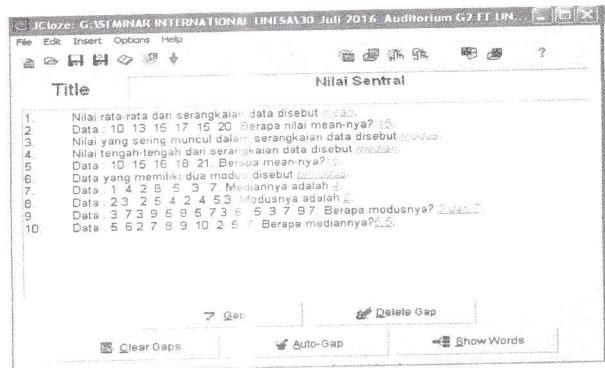
Picture 6 J-Match Exercise, Hot-Potatoes Display



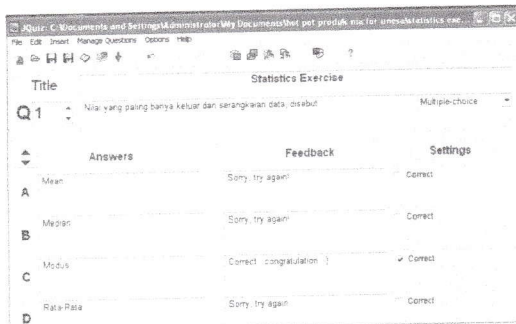
Picture 7 J-Match Exercise, Moodle Display



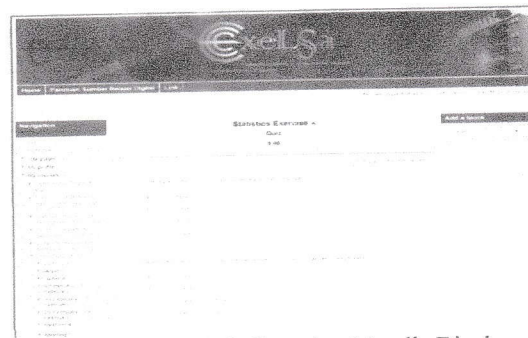
Picture 9 J-Cloze Exercise, Hot-Potatoes Display



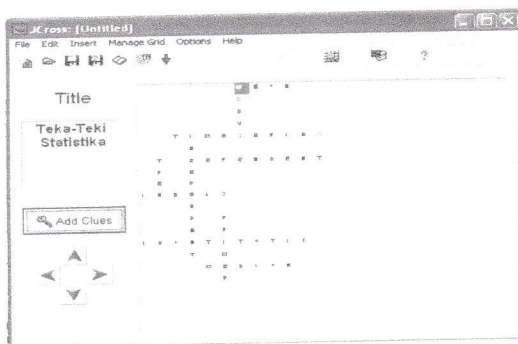
Picture 10 J-Cloze Exercise, Moodle Display



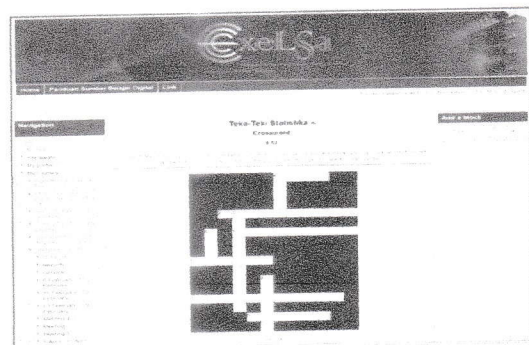
Picture 11 J-Quiz Exercise, Hot-Potatoes Display



Picture 12 J-Quiz Exercise, Moodle Display



Picture 13 J-Cross Exercise, Hot-Potatoes Display



Picture 14 J-Cross Exercise, Moodle Display

To determine effectiveness of developing exercise by using Hot Potatoes-based materials, measure from students achievement in each exercise. Passing grade of Statistics subject is 56. By using hot potatoes-based materials exercise in every chapter, can help student to understand materials of Statistics subject. Based on students achievement in every exercise, students can pass the passing grade. The results are as below.

Table 1. Students Achievement

Score	Grade	Basic Concepts of Statistics	Procedure Research of Statistics	Tables & Graphs of Statistics	Frequencies distribution	Central Value	Dispersion	Index	Trend
80-100	A	83,3%	94,4%	97,2%	100%	100%	97,2%	100%	100%
66-76	B	11,1%	5,6%	2,8%			2,8%		
56-65	C	5,6%							
46-55	D								
0-45	E								

Source: *Hot Potatoes Overviews, 2016.*

5. Conclusion

Information and communication technology is now growing rapidly in Indonesia. Education should be identify and make changes to improve the quality of learning. One of the way to do is by developing electronic based materials.

Statistics subject is one of difficult subjects for students in Economic Education Department of Sanata Dharma University. It is necessary to develop electronic-based materials media. Electronic based materials can interesting and motivating students.

One of the way to do it is by developing hot potatoes-based materials of Statistics subject. This developing include J-Match, J-Cloze, J-Quiz and J-Cross. To determine effectiveness of developing exercise by using Hot Potatoes-based materials, measure from students achievement in each exercise. The result is all of students pass each exercise with in the grade A or B or C. From that, developing hot potatoes-based materials of Statistics subject can be one of alternative to increase students achievement, especially materials of Statistics subject.

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