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PROCEEDING







INTERNATIONAL CONFERENCE ADRI - 5

Scientific Publications Toward Global Competitive

Ballroom Theater - Pinisi Tower 3rd Floor Universitas Negeri Makassar



"Scientific Publications toward Global Competitive Higher Education"

PROCEEDING

INTERNATIONAL CONFERENCE ADRI - 5

"Scientific Publications toward Global Competitive Higher Education"

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INTERNATIONAL CONFERENCE ADRI - 5 "Scientific Publications toward Global Competitive Higher Education"

FOREWORD

The theme of international conference ADRI – 5 is Scientific Publications toward Global Competitive Higher Education. This conference is an annual academic event that holds as a part of events series of inauguration to DPD ADRI SULSEL period 2017 - 2021. This proceeding consists of all accepted and supplementary paper. They are also presented in the conference. All papers are contributed by researchers who are not only academic member of ADRI but also those who come from many area disciplines such as teachers, practitioners, and students. It is hoped that this proceeding will be used well as academic references to share knowledge in produce quality scientific publication to build competitiveness of the higher education in the globalization era.

Makassar, 22 January 2017

Editor

INTERNATIONAL CONFERENCE ADRI - 5 "Scientific Publications toward Global Competitive Higher Education"

THE SCHEDULE OF INTERNATIONAL CONFERENCE ADRI - 5

TIME	ACTIVITY	PRESENTER	PIC
08.00 - 09.00	Registration		Committee
09.00 - 09.05	Opening ceremony	Master of Ceremony (MC)	
09.05 - 09.10	Singing Indonesia Raya	Dirigent	
09.10 - 09.30	Inauguration of DPD ADRI Sulsel	Dr. Achmad Fathoni Rodli, M.Pd.	МС
09.30 - 09.40	Organizing Report	Chairman Committee Dr. Faizal Amir, M.Pd.	MC
09.40 - 09.50	Speech as Chairman of DPP ADRI Sulsel	Prof. Dr. Husain Syam, M.TP.	MC
09.50 - 10.00	Speech as Chairman of DPP ADRI	Dr. Achmad Fathoni Rodli, M.Pd.	MC
10.00 - 10.10	Speech of Ministry	Dr. Ir. Agus Puji Prasetyono, M.Eng. (Expert Staff of Ministry of Research, Technology and Higher Education)	MC
10.10 - 10.20	Speech of Vice Governor of South Sulawesi	Ir. Agus Arifin Nu'mang, M.Si.	MC
10.20 - 10.40	Cultural Action	Traditional Dance	MC
10.40 - 10.50	Souvenir Gift	Given by Chairman of DPD ADRI SULSEL	МС
10.50 - 11.00	Coffee Break		
11.00 - 12.00	Speech of Keynote Speaker (Expert Staff of Ministry of Research, Technology and Higher Education)	Dr. Ir. Agus Puji Prasetyono, M.Eng.	<u>Moderator:</u> Widya Karmila Sari
12.00 - 13.00	Lunch Break		Committee
13.00 - 15.00	Speech of Invited Speaker (Panel Session)	 Prof. Dr. Ruzairi Abdul Rahim (UTHM Malaysia) Dr. Ir. Gatot Hari Priowirjanto, M.Sc. (Director SEAMEO, Bangkok) Dr. Achmad Fathoni Rodli (DPD ADRI Pusat) Dr. Anton Muhibuddin (JSPS - Japan) 	<u>Moderator:</u> Widya Karmila Sari, S.Pd., M.Pd.
15.00 - 17.30	Parallel Session Ballroom Lantai 2, Room 1	National & International Presenter	Moderator: Dr. Syafruddin Side
15.00 - 17.30	Parallel Session Ballroom Lantai 2, Room 2	National & International Presenter	Moderator: Dr. Hendrajaya
15.00 - 17.30	Parallel Session Ballroom Lantai 2, Room 3	National & International Presenter	Moderator: Dr. Wahira
15.00 - 17.30	Parallel Session P3G Lantai 3, Room 1	National & International Presenter	Moderator: Zaenal Abidin, M.Si.
15.00 - 17.30	Parallel Session P3G Lantai 3, Room 2	National & International Presenter	Moderator: Faisal Najamuddin, M.Eng.

Theater Room - 3rd Floor Pinisi Tower UNM, 21 January 2017



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THE SCHEDULE OF INTERNATIONAL CONFERENCE - PARALLEL SESSION -

Ruang: Ball Room I Lt.2Moderator: Dr. Syafruddin Side, M.Si.

Time	SPEAKERS	INSTITUTION	PAPER
	Nurlita Pertiwi	Universitas Negeri Makassar	Environmental Value Of River Bank
	Faizal Suyuthi	Fakultas Teknik Universitas Pejuang R.I	Correlational Study Of Environmental Science And Education Levels With Concern For Environment
15.00 - 15.30	Muhammad Amin Syam ¹ , Andi Ilham Samanlangi ² , La Ode Muh. Yazid Amsah ³	¹²³ Jurusan Teknik Pertambangan Fakultas Teknik Univrsitas Pejuang Republik Indonesia	Groundwater Modelling To Predict Flow And Negative Impacts Of Groundwater Abstraction
	Ritnawati ¹ , Enny Tri Mahyuni ² , Andi Amrullah ³	¹ Jurusan Teknik Pertambangan Fakultas Teknik Univrsitas Pejuang Republik Indonesia	Acid Mine Treatment Method Bioremediation Coal Mine Using Bacteria And Thiobacillus Thiobacillus Ferrooxidans Thiooxidans
15.30 - 16.00	Nur Asia Umar ¹⁾ , Sri Mulyani ²⁾ , Ida Suryani ³⁾ , and Muh.Hatta ⁴⁾	 ¹⁾Faculty Fishery Cokroaminoto Makassar University, ²⁾Faculty Fishery Bosowa University ³⁾Faculty Agronomy Cokroaminoto Makassar University, ⁴⁾Faculty Marine Science and Fishery Hasanuddin University 	Model And Simulation Of Relationship Tropodinamik Waters Of Lake Tempe, Wajo Disctrit.
	Slamet Widodo ¹ , Saifuddin Sirajudin ²	¹ Universitas Negeri Makassar ² Hasanuddin University	Effect Long Drying On The Quality Of Flour Fish Mujahir (Oreochromis Mossambicus) And Fish Sardenilla (Sardinella Aurita)
	Maimuna Nontji		Potential Analysis of Methane Gas Reduction by <i>Methanotrophs</i> Bacteria from Rice Field
	Muhammad Wiharto ¹ , Herlinda Haruna ² , Fatma Hiola ³ , Muhammad Wijaya ⁴ , Hamka L ⁵	Universitas Negeri Makassar	Analysis Of Vegetation Saplings Used In Mixed Forest Burnt Bawakaraeng Mountain
	Yiyin Klistafani	Politeknik Negeri Ujung Pandang	Experimental And Numerical Study Of Turbulent Flow Characteristic In Asymmetric Diffuser
	Adriyani Adam ¹ , Sukardi ² , Hasir ³ , Agus Erwin Ashari ⁴	¹ Health Polytehnic of Mamuju ² BKKBN of West Sulawesi Province	Factors Related To Early Age Marriage At Mamuju District
16.00 - 16.30	Lilies Anggarwati Astuti	Universitas Muslim Indonesia	An Effect Of Centrifugation Speed, Centrifugation Duration, And The Use Of Anticoagulants (Edta And Citrate Acid 3.8%) Of The Quantity



Time	SPEAKERS	INSTITUTION	PAPER
			Of Platelet Rich Plasma (PRP)
	Rukli	Universitas Muhammadiyah Makassar	Characteristics Analysis Of Math Items Type On Data Trend In International Mathematics And Science Study
	Amal Said	Faculty of Agriculture Makassar Islamic University	Mastery Rights Of Agricultural Land Management In South Sulawesi
16.30 - 17.00	Harapin H, A ¹ . Napirah ² , and S. Wanci ³	Faculty of Animal Science, Universitas Halu Oleo	Body Weight And Carcass Percentage Of Male And Female Local Pigeon (Columbia Livia) In Kendari City
	Nurnaeni	Academy of Midwifery (AKBID) Gunung Sari Makassar	Analysis Of Effect Of Motivation Nurse Nursing Documentation Of Filling The Medical Record Files
	Nilawati Uly ¹ , Ratnasari Iskandar ² , and Ririn Eka Puspitasari S. ³	¹²³ STIKES Mega Buana Palopo	Factors That Related With The Elderly Activeness In The Utilization Of The Elderly Posyandu
	Musbir ¹ , Sudirman ² , and Ridwan Bohari ³	Department of Fisheries, Faculty of Marine Science and Fisheries, Hasanuddin University.	The Resources Of Spiny Lobster (<i>Panulirus</i> spp) In Southern Coastal Waters Of Bulukumba Regency
	Riza Sativani Hayati	Biology Education Department, Mumammadiyah Makassar University	Potential Leaf Extract Orthosiphon Aristatus As Growth Inhibitor Of Candida Albicans
17.00 – 17.30	Nurfaizah AP.	Faculty of Education University Negeri Makassar	The Implementation Of Problem Based Learning (PBL) Model To Improve Critical Thinking Ability In Civics Learning To Fifth-Grade Students In SD Inpres 10/73 Bajoe Eastern Tanete Riattang District Of Bone
	Ambo Dalle	Universitas Negeri Makassar	The Effectiveness Of Cooperative Learning Model Concept Mapping In Learning Writing Skill In German Language



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THE SCHEDULE OF INTERNATIONAL CONFERENCE - PARALLEL SESSION -

Ruang Moderator : Ball Room 2 Lt.2 : DR. Wahira, M.Hum

TIME	SPEAKERS	INSTITUTION	PAPER
15.00 - 15.30	Hardianto Djanggih ¹ and Aan Aswari ²	¹ Law Faculty Universitas Tompotika Luwuk ² Law Faculty Universitas Muslim Indonesia	Information Technology Crimes Against Children As Victims
	Lu'mu	Fakultas Teknik , Universitas Negeri Makassar	Media Card For Anticorruption Learning On The Subject PkN (Pendidikan Kewarganegaraan) In Junior High School
	Kamri Ahmad ¹ and Andi Arjuni K. Petta Lolo ²	Indonesia Muslim University, Makassar, Indonesia	The Influence Of Political System On Corruption
	Rusdiana Junaid ¹ , Rustan Santaria ²	¹ Universitas Cokroaminoto Palopo	An Excursion As A Great Medium Of Writing Process
	Ahmad	Universitas Negeri Makassar	Urgency Of Spiritual Therapy In Developing Quality Of Soul And Character Of Students At SMAN Makassar
15.30 - 16.00	Umar	STISIP Muhammadiyah Sinjai	The Determinant Factors Toward The Effectiveness Of Supervision Function Of Local Parliament (DPRD) In Sinjai Regency
	Hariratul Jannah ¹⁾ , and Muammar Hasbullah ²⁾	Faculty of Letters, Universitas Muslim Indonesia	"Aru" As Traditional Poetry In Makassar The Study Of Stylistic
	Mahmudah	Universitas Negeri Makassar	Scientifics Markers In Academic Text
	Fatoni ¹ , Cahyo Yuwono², Mohamad Annas³	¹²³ Faculty of Sport Science, Semarang State University	Understanding Soccer Players Of The Laws Of The Game 2010/2011
	Syamsuddin Maldun	Universitas Bosowa	Prospects For Public Private Partnership Infrastructure In South Sulawesi Province
16.00 - 16.30	H. Joko Tri Brata ¹⁾ , La Ode Bariun ²⁾ , and Asri Djauhar ³⁾	Sulawesi Tenggara University	Model Poverty Based Collaboration
	Najmi Kamariah ¹ , Maryati Ismaili ² ,	¹ Sekolah Tinggi Ilmu Administrasi Negara (STIA LAN)	An Integration of Servqual Method and Quality Function



TIME	SPEAKERS	INSTITUTION	PAPER
	Abd. Rahman Kadir ² , and Noer Bahri Noer ²	Makassar ² Universitas Hasanuddin	
	Muhammad Jufri	Psychologi Faculty, Universitas Negeri Makassar	Talent Management: Toward Optimal Quality Of Human Resources
16.30 - 17.00	Yusriadi Hala	STIE – YPUP	The Effectiveness of The Intensification and Extensification Strategy To Increase The Revenue Of Makassar City
	Sunardi	Universitas Negeri Makassar	Environmental Conservation Through Waste Management Of Car Repair Shop In Makassar City
	Moh. Ahsan S. Mandra	Universitas Negeri Makassar	Analysis Of Learning Assessment In Physics At Automotive Engineering Education Study Program State University Of Makassar



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THE SCHEDULE OF INTERNATIONAL CONFERENCE - PARALLEL SESSION -

Ruang: IModerator: I

: Ball Room 3 Lt.2

Moderator : Dr. Hendra Jaya, M.T

TIME	SPEAKERS	INSTITUTION	PAPER
	Risa Bernadip Umar ¹ , Munawar ² , Natsir Thamrin ³	Fakultas Teknik Universitas Pejuang Republik Indonesia	Effect Of Heat Treatment On The Mechanical Properties Of Steel S45c Welding Process With Smaw (Shielded Metal Arc Welding)
15.00 - 15.30	Andi Ilham Samanlangii ¹) Adi Tonggiroh ²) and Moh.Khaidir Noor ³)	^{1,3)} Mining Engineering Department, Universitas Pejuang Republik Indonesia (UPRI) ² Geologi Department, Universitas Hasanuddin	Prospecting Iron Ore In Sabussalam Region Calendar In City Subulussalam, Aceh
	Heri Suryaman ¹⁾ , Kusnan ²⁾ , Suparji ³⁾ , and Supari Muslim ⁴⁾	 ^{1,2,3)} Civil engineering, faculty of technique, surabaya state of university ⁴⁾ Electrical Engineering, faculty of technique, surabaya state of university 	Developing KKNI Based Teaching Administration And The Problem Solving In Order To Increase The Learning Outcomes Of Students In Beam Structure-I Class, Civil Engineering, State University Of Surabaya
	Kusnan ¹⁾ , and Agus Wiyono ²⁾	Civil engineering, faculty of technique, surabaya state of university	Development Of Flood Countermeasures Model In Campus Of Ketintang UNESA Surabaya
	Agus Budi Santosa	Electrical Department, of State University of Surabaya	The Development Of Learning Media To Improve The Results Of The Study Of Data Communication In Industrial Electronics Engineering Department At SMKN 1 Jetis Mojokerto
15.30 - 16.00	Syamsidah	Faculty of Engineering, Universitas Negeri Makassar	Employer Relationship Patterns And Housemaids
	Hasanah ¹ ; Muh. Nasir Malik ² ; Elfira Makmur ³ ;	Faculty of Engineering , Universitas Negeri Makassar	Model Integration Of Discovery Learning With Contextual Teaching And Learning (DI-CTL MODEL) To Improve The Quality Of Learning In Vocational High School
	Sapto Haryoko ¹ , Hendra Jaya ²	Universitas Negeri Makassar	Alignment of Supply and Demand workforce Vocational School Graduates On Industry
	Yasser A. Djawad ¹ , Sutarsi Suhaeb ²	Universitas Negeri Makassar	Role of Information Technology in Health Sector in Improving Health Care
16.00 - 16.30	Muhammad Yahya	Universitas Negeri Makassar	Empowerment Of Dropout Students School By Training Of Servicing Motorcycle



TIME	SPEAKERS	INSTITUTION	PAPER
	Muliaty	Creative Media State Polytechnic Makassar	The Design Of Tour Guide Application Based On Android
	Abdul Muis Mappalotteng ¹ , Fathahillah ² , Pattasang ³	Technology and Vocational Education, Postgraduate, State University of Makassar	The Effectiveness Of Using Plc Trainer Panel System In The Practice Learning Of Operating Electromagnetic Control System In Vocational High School
	Ummiati Rahmah	Universitas Negeri Makassar	Theatrical Mini Development Character Early Age Child at TK Melati UNM
16.30 - 17.00	Muhammad Saleh ¹ and Mayong Maman ²	Universitas Negeri Makassar	Politeness Strategy Of Students' Speaking Skill In Learning Interaction
	Muhammad Basri D ¹ , Andi Tenri Ampa ² , and Sitti Halijah ³	¹ Department of English, Faculty of Letters, UMI Makassar, ² Department of English Education, Faculty of Teachers Training and Education, Unismuh Makassar, ³ Department of English Education, Faculty of Letters, UMI Makassar,	The Specified Patterns Of Noun Phrases Used By The Fourth Semester Students In Their Paragraphs
	Mahmud Mustafa	Universitas Negeri Makassar	Material Development Teaches Digital Electronic Gets Multimedia's Basis At Tech Education Majors Unm's Electronics



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THE SCHEDULE OF INTERNATIONAL CONFERENCE - PARALLEL SESSION -

Ruang : P3G Ruang I Lt.3

Moderator : Zainal Abidin, SE., M.Si.

TIME	SPEAKERS	INSTITUTION	PAPER
	Purnamawati ¹ , Hasanah ² , Nuridayanti ³	Fakultas Teknik, Universitas Negeri Makassar	The Implementation Of Problem Posing Learning Model Of Subject Electrical Engineering
15.00 - 15.30	Muhammad Ilham Bakhtiar ¹ , Sinta Nurul Oktaviana K. ²	1STKIP Andi Matappa.Pangkep	Cognitive Restructuring Application Techniques To Reduce Student Behavior In Academic Procrastination
	St. Asriati AM.	Fakultas Keguruan dan Ilmu Pendidikan, Universitas Muhammadiyah Makassar	The Use Of Predict-Explain-Observe-Explain In Improving The Students' Speaking Ability At The Eleventh Year Of SMA Batara Gowa (An Experimental)
	Musripah ¹⁾ , Ismet Basuki ²⁾ , Euis Ismayati ³⁾ , and Supari Muslim ⁴⁾	¹⁾ SMKN 2 Boyolangu Tulungagung ^{2), 3)} and ⁴⁾ Postgraduate Program of State University of Surabaya	The Effect Of Learning Styles And Learning Model Of Students Competence Subject Basic Design At State Vocational High School 2 Boyolangu
	Mubasir ¹⁾ , Muchlas Samani ²⁾ , Mochamad Cholik ³⁾ , and Supari Muslim ⁴⁾	¹⁾ SMK Al- Huda Kediri ^{2) 3)} and ⁴⁾ Postgraduate Program of State University of Surabaya	The Development Of Motorcycle Trainer Starting System Learning Media To Improve Students' Learning Outcomes In Starting System Repairment Competence
15.30 - 16.00	Jahja Nawawi ¹⁾ , Muclas Samani ²⁾ , Ekohariadi ³⁾ , and Fendi Achmad ⁴⁾	¹⁾ SMK PGRI 4 Kediri ^{2), 3)} and ⁴⁾ Postgraduate Program of State University of Surabaya	The Effect Of Cooperative Learning Model Jigsaw Ii Toward The Students Learning Outcome Electric Light Vehicle Maintenance At State Vocational High School PGRI 4 Kediri
	Hendro ¹⁾ , Muchklas Samani ²⁾ , Wayan Susila ³⁾ , and Fandi Achmad ⁴⁾	¹⁾ SMK Al Huda Kediri ^{2) 3)} and ⁴⁾ Postgraduate Program of State University of Surabaya	The Development Trainer Media Car Audio Systems To Improve Learning Outcomes Audio System Maintains Competency Skills In State Vocational High School Al Huda Kediri
	Sutikno ¹⁾ , Supari Muslim ²⁾ Bambang Suprianto ³⁾	¹⁾ SMK Kediri ²⁾ and ³⁾ Postgraduate Program of State University of Surabaya	The Relationships Among Map Concept Learning Strategies, Lathe Practicum Learning Facilities, Teaching Skills, And Student Learning Outcome Of Grade XI Mechanical Engineering Of All Vocational Senior High Schools Kediri
	Joko Sukariono ¹⁾ , Supari Muslim ²⁾ , and Munoto 3)	¹⁾ SMK Al Huda Kediri ²⁾ and ³⁾ Postgraduate Program of State University of Surabaya	The Effect Of Intellegent Quotient Level And Learning Media Of Automatic Transmission Service Subject Outcome Of Student At Xii Motorcycle Engineering Smk Al Huda Kediri
16.00 - 16.30	Munirah ¹ and Rahmah A. ²	Prodi Magister Pendidikan Bahasa dan Sastra Indonesia	The Real Things Media In Writing Description Learning Of Student Grade X ₁ MAN Pangkep



TIME	SPEAKERS	INSTITUTION	PAPER
	Muhammad Yusri Bachtiar ^{1*} , Muhammad Akil Musi ² , Syamsuardi ³	^{1,2,3} Prodi PG-PAUD Fakultas Ilmu Pendidikan Universitas Negeri Makassar	Developing Project Based Learning Method Using Media Recycling Waste At Group B Islamic Integrated Kindergarten Wihdatul Ummah Makassar
	Misykat Malik Ibrahim ¹ , Muhammad Amri ²	Tarbiyah and Teaching Faculty (FTK), Alauddin State Islamic University	The Evaluation Of Biology Education Study Program Of Tarbiyah And Teaching Faculty Of UIN Alauddin Makassar
	Elidasari	STEI Trianandra	The Effect Of Inquiry Learning Model To Student Having Field Independent Cognitive Style Toward Writing Skill Of Business Letter
16.30 - 17.00	Ridwan ¹ , Yansar ² , and Dedi Kusnadi ³	Faculty of Teacher Training and Education, Borneo Tarakan University	The Analysis Of Curriculum 2013 Textbooks For The Fourth Grade Students Viewed From The Aspect Of Content Feasibility
	Hikmawati Usman	Fakultas Ilmu Pendidikan Universitas Negeri Makassar	The Effect Of Using Audio Visual Media To Learning Outcomes Of Art, Culture And Skills Of Grade IV SD Negeri Mannuruki Tamalate District, Makassar City
	Ramly	Fakultas Bahasa dan Sastra Universitas Negeri Makassar	The Discrepancy Between Teaching Plan And Its Implementation
	Riana T. Mangesa ¹⁾ , and Anas Arfandi ²⁾	^{1,2)} Faculty of Engineering - Universitas Negeri Makassar	Review Of Implementation Values Of Character In The Subject On Vocational Education
17.00 – 17.30	Muhammad Guntur	Study Program of Public Administration, Faculty of Social Sciences, State University of Makassar, South Sulawesi, Indonesia	Implementation Of Good Governance Principles On Transparency, Accountability And Participation Community In Indonesia



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THE SCHEDULE OF INTERNATIONAL CONFERENCE - PARALLEL SESSION -

Ruang : P3G Ruang 2 Lt. 2

Moderator : Faisal Najamuddin, S.Pd., M.Eng.

TIME	SPEAKERS	INSTITUTION	PAPER
15.00 - 15.30	Andi Paida	Program Studi Pendidikan Bahasa dan Sastra Indonesia	Effectiveness Of Application Technique Sentence Stock Exchange In Lesson Setting Paragraph Narrative Class X SMK Gunung Sari 1 Makassar
	Nahindi Putra Gitama ¹⁾ , LuhWinaSadevi ²⁾ , Supari Muslim ³⁾ , and BambangSuprianto ⁴⁾	 ^{1,2)} Magister of Engineering and Vocational Education, Post Graduate State University of Surabaya, ^{3,4)} Professor of Engineering and Vocational Education, Post Graduate University of Surabaya, 	Comparison Of The Learning Outcomes Of Courslab 2.4 And Power Point Media In PLC Course
	Syamsiarna Nappu ¹ , and Evi Angraeni ²	Universitas Muhammadiyah Makassar	Improving Students' Vocabulary Through Jigsaw Technique
	Herman H ¹⁾ , and Hasruddin ²⁾	Faculty of Sport Science, Universitas Negeri Makassar	Analysis Of Motivation Of Students Exercise Basketball SMAN 2 Polongbangkeng North District Takalar
15.30 - 16.00	Endang Ayu Patrianingsih ¹ , Ernawati S K ² , and Nurhayati B ³	^{1,2,3)} Post Graduate State University Of Makassar	The Influence Of Discovery Learning Model Toward The Comprehension Of Biology Concept And Scientific Attitude Of Students At SMAN 3 Takalar
	Joko	Faculty of Engineering Unesa Surabaya	Development Learning Tool Problem Based Learning Model Direct Current Machines Lesson
	Wahyu Prima Agus ¹⁾ , Achmad Munandar ²⁾ , Bambang Supriatno ³⁾	Universitas Pendidikan Indonesia	Reasoning Analysis Of Junior High School Students Around The Settlement Of Indigenous Baduy In Response Environmental Issues
	Muhammad Khalifah Mustami	Biology Education Department, Teaching and Science Faculty, State Islamic University of Alauddin Makassar	Information Reception And Attitude Of Environmental Awareness On Secondary School Students
16.00 - 16.30	Ratna Dewi ¹ , Erwin Udding ²	^{1, 2} Muhammadiyah University of Makassar	University Students' Errors In Using Elliptical Constructions



TIME	SPEAKERS	INSTITUTION	PAPER
	Akbar iskandar ¹ , Muhammad Rizal ²	¹ STMIK AKBA	Item Quality Analysis Instrument In The College Entrance Test In The View Of The Expert Validator
	Mislia	UPRI	An Implementation Of Character Education In Scout Extracurriculer Activity At SMPN 1 Maros
	Darlan Sidik	Universitas Negeri Makassar	Application Of ICT For Distance Learning In Cooperation Program Of State University Of Makassar
16.30 - 17.00	Farida Aryani ¹ , Abdullah Sinring ² , Muh. Rais ³	Universitas Negeri Makassar	Conseling Guidance Services Using SIMPESA (Sistem Aplikasi Peminatan Siswa)
	Muhammad Jafar	Universitas Negeri Makassar	Professional Competence Development Of English Teachers In Indonesian Junior High School
	Bakharani Rauf	Universitas Negeri Makassar	Analisis Of Motivation And Interest Of Secondary High School Students To Continue The Study In Vocational High School
	Abd. Halim	Universitas Negeri Makassar	A Motivational Study On Learning English In The Extended Learning Program
17.00 - 1730	Syamsiah D.	Universitas Negeri Makassar	Integrated Cooperative Model Application Reading Composition (CIRC) To Improve Understanding Learning Outcomes Of Reading Class V SD Negeri Sudirman II Makassar
	Umi Farida	Universitas Negeri Makassar	The Challenges Of Higher Education In Asean Economic Community (Aec)
	Eko Wagiyanto	Universitas Negeri Makassar	Policy Analysis On Prevention Of Child Dropout Of School Case Study: Movement Back To School In Mamuju
	Amirullah Abduh ¹⁾ and Rosmaladewi ²⁾	¹⁾ UniversitasNegeri Makassar, Indonesia ²⁾ Politeknik Pertanian Negeri Pangkep, Indonesia	English Language Teaching In An Indonesian Primary School: Teachers' Perspectives

ADRI PERVUNYALAN ANLI 5 DOKEN REPORT IK INGGE SAL DPD SULSEL

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REVIEW OF IMPLEMENTATION VALUES OF CHARACTER IN THE SUBJECT ON VOCATIONAL EDUCATION

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ABSTRACT

The objective of this research is to develop the competency-based learning the electricity by integrating character education (Model-PKBK) in Vocational High School. Learning system at SMK developed through a competency-based curriculum with character values. Research & Development, according to Borg and Gall, on model competency-based learning electrical device integrates character education. Based on learning products, research implementation out in two schools, using method of pretest-posttest control group design. Through learning approaches, teaching planning process, implementation and assessment refers to the mastery of competencies value character. The results showed the principals and teachers should understand the integration of character values in the learning process. Learning outcomes will increase valuable learning through competency-based characters - Model PKBK in SMK.

Keywords: Implementation of Value Character, Competency Based Learning

INTRODUCTION

Informal education, especially within the family environment not significantly contributed in supporting the achievement competence and character formation of students. The bustle and activity of working parents are relatively high, the lack understanding of parents in educating children the family environment, the influence of association the environment, and effect of technological progress is considered a negative influence on the development of learners, the ability of competence and achievement of learning outcomes, Masnur Muslich, (2011).

Education became a major pillar of the establishment of a nation, it must be through the education of the generation born excel both in science and technology as well as faith and Taqwa (IMTAQ)

The implementation of character education in Indonesia, it's necessary at all levels of education, both the college level until kindergarten, either at home in a social environment. Events Calendar in preparing the grand design of the character education throughout the nation in 2014 educational unit has developed a character education. to increase the value of the culture and character of the nation, so that students are expected to have a value and character as himself. Applying these values in life itself a competent member of society, citizens piety and have the competence or professional work, productively and creatively.

Suitability competence, of in globalization and increasing technology needs, followed by the competition of technological development, leading technology user freedom, must be offset by education code for the fulfillment of moral values and responsibility on the main factors that shape cultural values and national character. Configuring the characters in the context of the totality of the process of psychological and sociocultural grouped in; Spiritual, emotional development, though intellectual development, Physical and development,



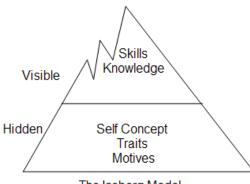
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Affective and Creativity development.

Samani and Hariyanto (2014: 45), character education can be defined as the value, character, moral education. Educational character, aiming at developing the ability of learners to provide good decision bad, preserve what is good, and realize the goodness in everyday life with a vengeance

Character education is expected for all education units are integrated in classroom learning and school culture. Excels in the mastery of science and technology, which refers to the National Education Standards, as the basis for assessment, which can be measured by the achievement of a higher caliber. As stipulated in Law No. 15 of 2003 on National Education System, vocational education prepares students mainly work in a particular field.

Abdul Azis, Hamka (2011: 71) education is the process of human growth and development with all its potential through the teaching of teaching and learning to gain knowledge and skills and develop good behavior in order to be useful for her life, society and the environment



The Iceberg Model

Figure 1 . Competency component form (Spencer & Spencer,1993)

Based on the vision and mission of education in vocational schools (SMK) give priority to the preparation of students for work, develop the ability to work professionally and is expected to have a value on her character. It can be interpreted that the vocational education priority to preparing students to compete into the labor force and develop professionalism in the work, excelled in science and technology and valuable character of the nation. Spencer argued competence can be sourced from five different types, and the components that make up a competency. The five components of these competencies can be seen in Figure 1 below; It was explained that a component called the hidden motives and traits competency because it is difficult to develop and difficult to measure. Components of knowledge and skills is called visible competency tends to look, easy to develop and easy to measure.

Components of self concept lies between these two components. Characteristics of competencies are distinguished by the degree to which these competencies can be taught. Knowledge, referring to information and learning. Skills, refers to a person's ability to perform an activity, ability to do certain physical tasks.

In line with the above definition, Mulyasa (2004: 37-38), the competence as the knowledge, skills and abilities are controlled by a person had become part of him, so it can do the behaviors of cognitive, affective and psychomotor as well as possible. Some models of learning that has been developed, the integration of character education through the learning process, can be performed on all subjects at school

With respect to the competencybased learning is generally learning outcomes can be grouped into three areas, namely cognitive, affective, and psychomotor, then the character education that is often used to clarify aspects related to norms, will support the implementation of competency-based learning, which application in everyday life is very



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touching affective and psychomotor in student behavior.

RESEARCH METHODS

Results of Research & Development, according to Borg and Gall (1983: 772), is a model and competency-based learning electrical devices integrated character education, (Product Research, 2014). Based on these products, the study continued with the implementation method in two groups with quasi experiment. The design study is pretest-posttest control group design. The study design can be seen in the figure below

Figure 3. Pretest-Posttest Control Group Design. (Sugiyono, 2013 : 116)

Information:

- R1 : Sample Experiment group
- R2 : Sample Control group
- O1 : Experimental group pretest
- O2 : Pretest control group
- X : Treatment
- O3 : Experiment group posttest
- O4 : Posttest control group

The population in this study were all students of class X SMK Negeri 1 Galesong amounting 2014/2015, to 45 people. techniques Data collection using test instruments, test it first on validity and reliability. Validity test is done through expert judgment and test 30 respondents, the data obtained were processed using SPSS. For reliability test, using the formula method Kuder-Richardson 20 (KR-20) with the formula, Riduwan (2007):

$$r_{11} = \left[\frac{1}{k-1}\right] \left[\frac{S^2 - \sum pq}{S^2}\right]$$

Information:

- r_{11} = Coefficient of reliability
- p = proportion of subjects who answered correctly
- q = The proportion of subjects who answered the wrong item (q=1-p)
- $\sum pq =$ The number of multiplication between p and q
- k = Number of items about
- S = standard deviation of the test (standard deviation is the root of variance)

Guidelines for interpreting reliability coefficient according to Riduwan (2007) describe in Table 1.

Table 1 Interpretation of Correlation Coefficient (r11)

Coefficient (r)	Level reliability
0,800 - 1,000	Very High
0,600 - 0,799	High
0,400 - 0,599	High Enough
0,200 - 0,399	Low
0,000 - 0,199	Very Low

The test instrument composed of books-1 electrical module on basic competencies electrical safety. The test was given to both groups of students, the population in this study. Experimental groups in the learning process using the module, while the control group in the learning process does not use electrical work safety module. Both groups were given the same test

RESULTS AND DISCUSSION

The first step in this research is to test the test instrument from a 30 item instrument items. Instruments declared invalid in its entirety by significant level of 5% and df = n - 2 = 30-2 = 28, so that the value rtabel namely 0,361, because the correlation



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between the grains with a total score greater than the value of the item such instruments rtabel declared invalid. Furthermore, the reliability test, interpreting a correlation coefficient (r11), according to Table 1 are:

$$r_{11} = \left[\frac{30}{30-1}\right] \left[\frac{8,22^2 - 7,17}{8,22^2}\right]$$
$$r_{11} = \left[1,03\right] \left[\frac{60,3984}{67,5684}\right]$$
$$r_{11} = \left[1,03\right] \left[0,89\right]$$
$$r_{11} = 0,9167$$

In accordance with Table 1 above, it was found that the value of 0.9167 is in the interval (0.800 to 1.000), meaning that the level of reliability of the test instrument, is very high.

After the test instrument is declared invalid and reliability are at very high category, then it's a good test instruments for collecting used data on the process implementation of learning module electrical safety. At the first meeting conducted preliminary tests to both groups, Control and Experiment, to determine the ability of the start of the two groups. Results found the pre-test controls and grade classroom experiments, statistically showed the average value in the Control class 53.18 and class experiment is 54.31, with the same number of research subjects (N) 45. It appears that the initial knowledge of both groups is almost the same. The explanation can be seen in Table 2.

Table 2.						
Data Distribution	Control C	Class and	Class	Experiment		

No	Statistical	Pre-test			
No.	Statistical	Control	Eksperimen		
1	Ν	24	23		
2	Mean	53,18	54.31		
3	Std.Deviasi	14,18	13,48		
4	Skor tertinggi	80	80		
5	Skor terendah	30	30		

a. Data Learning Outcomes Post-test Control Group

Table 3. Posttest Data Distribution Control Group

Interval	Interval Category		Percentage (%)
0 - 19	Very low	2	8,4
20-39	Low	9	37,5
40 - 59	40 – 59 Enough		33,3
60 - 79	60 – 79 High		20,8
80 - 100	Very high	0	0
Am	ount	24	100

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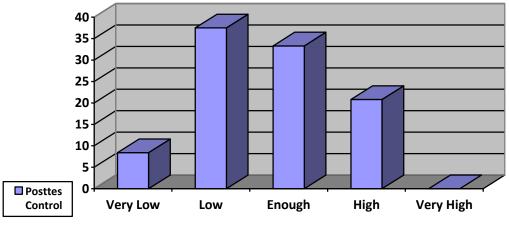


Figure 2. Histogram Value Posttest Control Group

Figure 2 is the result of analysis of the value of the Post-test grade control in the form of histogram describe comparison attainment of student learning is taught without using PKBK Model, based on the data that has been processed statistically. Low category gained 9 students, show learning approaches need to be improved.

b. Data Learning Outcomes Post-test Group Experiments

Posttest Data Distribution Experiments Group								
Interval Category Frequency Percent								
0 – 19	Very low	0	0,00					
20-39	Low	1	4,35					
40 - 59	Enough	3	13,04					
60 - 79	High	7	30,43					
80 - 100	Very high	12	52,17					
Jumlah		23	100,00					

Table 4.

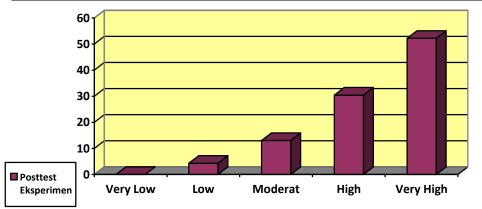


Figure 3. Histogram Value Posttest Experiments Group

Figure 3 is the result of analysis of the value of the Post-test Experiments Group in the form of histogram describe comparison attainment of student learning is taught using PKBK Model Based on the data that has been processed statistically,



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very high category gained 12 students from 23 students who learn to use Model PKBK.

Increases referred to in Table 5 is the difference between the initial test and final

test. The data in Table 5 is used to compare how much improvement of learning outcomes in both groups after each group is given a different treatment.

 Table 5. The Increase In Pretest and Posttest

	Table Improved Comparison								
Control						Experii	nents		
Pretest	Pretest Posttest Enhancement			Pretest	Posttest Enhancement				
Ν	24		Ν	23					
Σ	1170	1170 1420		250	Σ	1265	1895	630	
Mean	53,18	64,	54	11,36	Mean	55	82,39	27,39	
SD	14,18	16,	61	2,43	SD	13,48	18,7	5,22	

The evaluation results of the assessment of learning models, sourced from teachers as practitioners of the field, which already provides a good assessment, appropriate experience in the field. Teachers provide a good appreciation of the devices that model. Data from the teacher response assessment can be shown

in Table 6. The average assessment data according to the indicators outlined aspects of aspects in the assessment sheet that is; effectiveness indicators, the mean score of 3.94, the indicator practicality mean score of 3.87 and validity indicators mean score of 3.90.

Table 6Data Assessment Response Teacher

Aspect	Rating Result						
Assessment	Avera	age Value Tea	Awamaga	Oi 4 i -			
	Teacher 1	Teacher 2	Teacher 3	Average	Criteria		
Effectiveness	3,90	4,00	3,90	3,94	Very Good		
Practicality	3,90	3,90	3,80	3,87	Very Good		
Validity	3,90	3,90	3,90	3,90	Very Good		
Average Value = 3,91 (Category Very Good)							

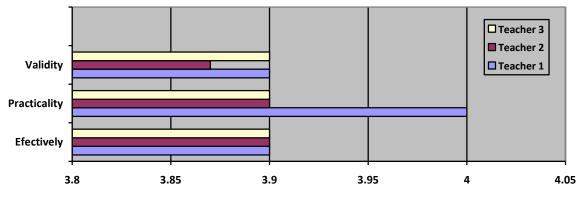
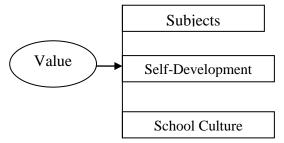


Figure 4. Response Teachers



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Data Table 6 shows the results of responses Teachers and Principals, practitioners who have used the learning model. Principals and teachers have to understand the integration of character values in the learning process, that by adding the value of the characters in the lesson plan, indicating the subject has been integrated with the values that correspond to the character of competency-based learning in SMK. In connection with the Reinventing Human Character in Fitri, et al. (2012: 45) character education can be implemented through multiple strategies and approaches, which include: (1) the integration of values and ethics in each subject; (2) internalization of positive values instilled throughout the school (principals, teachers community and parents); (3) habituation and training. With the commitment and support from various parties, in implementing positive activities such as smiles, greetings and regards every day; (4) shows an example; (5) create a friendly atmosphere in the school; and familiarization.





The purpose of character education by the Ministry of National Education (2010d) are: (a) developing the potential for heart / conscience / affective as citizens of cultural and national character; (b) develop habits and attitudes commendable and in line with universal values and cultural traditions of religious nation; (c) inculcate leadership and responsibility as the future generation; (d) develop the ability to be independent, creative and insightful nationality; (e) developing environmental life of the school as a learning environment that is safe, honest, full creativity and friendship as well as the sense of nationality. Learning outcome is determined by the willingness of students to learn significantly and continuously.

Improved learning results are shown in Figure 3 is the result of data analysis value Post-test Experimental class in the form of histogram describe differences in learning outcomes achieved by students. Differences in learning outcome in both groups after each treatment group was given the stage of learning (syntax) PKBK models.

Results achievement of competence is measured through indicators on all three cognitive, affective aspects of and psychomotor used in implementing the learning field. Learning Model PKBK is pursued with the paradigm that all teachers character are educators (character educator). All subjects also assumed has a noble mission in shaping the character of the learners, Mulyasa (2011: 59).

Characters synonymous with morality, so the characters are values of human behavior that is universal that includes all the activity of human beings, both in order to relate with God, with ourselves, with our fellow human beings, as well as to the environment, which manifested itself in the thoughts, attitudes, feelings, words and actions based on religious norms, laws, manners, culture, and customs, Marzuki (2011: 5).

In the implementation of character values can be done in several ways including; integrating value the of character education into subjects, or through selfdevelopment such as extracurricular activities or acculturation. Integration character education into subjects can be done by inserting character values lesson plan (RPP) for the next during classroom teachers in implementing the learning, values education should be reflected in the learning activities. Without any intention



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or desire, character education will be marginal in the performance of a school (Doni Koesoema, 2012: 76)

CONCLUSIONS

Based on the result and discussion, the principals and teachers should understand the integration of character values in the learning process. Learning outcomes will increase valuable learning through competency-based characters -Model PKBK in SMK.

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