



ISSN: 2548 - 4613
Vol. 2, December 2017

PROCEEDINGS AISTEEL 2017

THE 2nd ANNUAL INTERNATIONAL SEMINAR ON TRANSFORMATIVE EDUCATION AND EDUCATIONAL LEADERSHIP

Educational Research to Endorse Productive and Innovative Generation in the 21st Century

16-17 October 2017

Ball Room Grand Mercure Hotel, Medan - Indonesia

Organized by:
Post Graduate School
State University of Medan
North Sumatera, Indonesia

Supported and Coordinated by:



Indexing By





9 772548 461 001



Proceedings of The 2nd Annual International Seminar on Transformative Education and Educational Leadership (AISTEEL 2017)

“Educational Research to Endorse Productive and Innovation Generation in The 21th Century”

Grand Mercure Hotel, Medan City, North Sumatera, Indonesia

October 16-17, 2017

Editorial Board

Editorial-in-Chief

Dr. Juniastel Rajagukguk, M.Si (State University of Medan, Unimed)

Deputy Editor

Dr. Saronom Silaban, M.Pd (State University of Medan, Unimed)

International Advisory Board / Scientific Committee

Prof. Dr. Kala Saravanamuthu (University of Newcastle, Australia)

Prof. Arjen EJ Wals (University of Gothenburg, Sweden)

Prof. Dr. Bornok Sinaga, M.Pd (Unimed, Indonesia)

Prof. Dr. Aytekin Isman (Sakarya University, Turkey)

Prof. Peter Charles Taylor, Ph.D., Med., B.Sc., Dip.Ed (Murdoch University, Australia)

Prof. Dr. Mukhlas Samani, Ph.D (Indonesia)

Prof. Dr. Jailani bin Md. Yunos (University Tun Hussein on Malaysia)

Prof. Dr. Nurahimah Mohd. Yusuf (UTM, Malaysia)

Assoc. Prof. Dr Pedro Isaias (University of Queensland, Australia)

Assoc. Prof. Elisabeth Taylor, Ph.D (Murdoch University, Australia)

Dr. Bambang Sumintono, M.Ed (Universiti Malaya, Malaysia)

Dr. Isma Widyaty, M.Pd (UPI, Indonesia)

Prof. Dr. Syahrul R, M.Pd (UNP, Indonesia)

Prof. Amrin Saragih, MA., Ph.D (Unimed, Indonesia)

Assoc. Prof. Ade Gafar Abdullah, M.Si (Universitas Pendidikan Indonesia)

Eng. Asep Bayu Dani Nandiyanto (Universitas Pendidikan Indonesia)

Prof. Dr. Hartono, M.Pd (Universitas Negeri Semarang)

Please cite the proceeding as “Proceeding of the First Annual International Seminar on Transformative Education and Educational Leadership Vol. 2” with the following abbreviation: *Proc. Aist.*, **2**

Preface

The 2nd Annual International Seminar on Transformative Education and Educational Leadership (AISTEEL with web link is <http://aisteel2017.unimed.ac.id/>) was held on October 16 -17, 2017 in Medan City, Indonesia. This conference was organized by Postgraduate School, State University of Medan (Unimed) and is the routine agenda at Unimed now. The Second Annual International Seminar on Transformative Education and Educational Leadership' is realized this year with various presenters, researchers, lecturers and students from universities both in and out of North Sumatera participate in the theme of which is "Educational Research to Endorse Productive and Innovative Generation in the 21st Century."

2nd AISTEEL is the annual international seminar with main aim is to discuss of recent research special for Transformative Education and Education Leadership. Several topics like: Teachers Education Model, Research Global Issue in Education, Mathematics and Science Education, Social, Language Education, Vocational Education, Curriculum, Economic, History and Management Education have been discussed at the 2nd AISTEEL 2017. 2nd AISTEEL international seminar provided experts' view on transformative education and educational leadership as well as curriculum article presentation. There were five keynote speakers have been came Professor Keiichiro Yoshinaga, Dr. Bambang Sumintono, Dr. Sitti Maesuri Patahuddin, and Dr. Yulia Rahmawaty. The organizer had been use online submission system to receive all abstract, full paper and also communication with authors. All of information include with comment of reviewer can be cheked real time by author.

Chairperson

Dr. Rahmad Husein, M.Ed



Welcoming Speech of Director of Postgraduate School State University of Medan

The Second Annual International Seminar on Transformative Education and Educational Leadership (AISTEEL)

The honorable,

- *Rector of State University of Medan, Prof. Dr. Syawal Gultom, M.Pd.*
- *Vice Rectors of UNIMED*
- *Professor Keiichiro Yoshinaga, PhD, Institute of Liberal Arts and Science, Kanazawa University – Japan*
- *Dr. Bambang Sumintono, M.Ed., University Malaya – Malaysia*
- *Dr. Sitti Maesuri Patahuddin, Faculty of Education, Science, Technology and Mathematics, University of Canberra – Australia*
- *Yuli Rahmawati, Chemistry Education Program, Universitas Negeri Jakarta*
- *Deans of Faculties of Education, Languages and Arts, Social Sciences, Natural Sciences and Mathematics, Engineering, Sports Sciences, and Economics*
- *Vice Directors of Postgraduate School of UNIMED*
- *All speakers, lecturers, researchers, students, and participants*

Good Morning

Welcome the honorable guests speakers Professor Keiichiro Yoshinaga, Dr. Bambang Sumintono, Dr. Sitti Maesuri Patahuddin, Assoc. Prof. Emilia Zulmira de FAN, and other speakers, lecturers and students from outside and inside Unimed to this international seminar which is the routine agenda at Postgraduate program of Unimed now. I'm glad that 'The Second Annual International Seminar on Transformative Education and Educational Leadership' is realized this year with various presenters, lecturers and students from universities both in and out of North Sumatera. and participate in the theme of which is "Educational Research to Endorse Productive and Innovative Generation in the 21st Century."

Ladies and Gentlemen,

In this second seminar exels the first one related to the administration by online and the publication index by either Thomson Reuters or Google Scholar. By the new policy on student's publication, postgraduate program really matches the system, particularly for the students who will sit in the oral defence examination. Through the seminar, the postgraduate students improve their article journal writing and it is proved by many articles are submitted by the students.

The plenary speakers coming from 15 provinces in Indonesia will present topics covering multi disciplines. They will contribute a lot of inspiring inputs and new knowledge on current trending educational research topics all over the world. The expectation is that all potential lecturers will share their research findings to educational scientists and researchers as well for improving their teaching process and quality. Thus, this will contribute to the next young generation researchers to produce innovative research findings in education and educational leadership contexts.

This second seminar continues the promotion of the first sequel 'Developing Future Teachers' Education Model. Therefore, the propose of this second seminar on the transformative education and educational leadership research will trigger the young professional lecturers and educators to compete in the invention of inovative educational teaching and learning strategies, techniques and leadership.

I hope that the scientific attitude and skills through research will promote Unimed to be a well-known university which persists to be developed and excelled in the future.

Thank you the Rector of Unimed who always supports us in organizing the seminar. Thank you all guest and plenary speakers. Special thanks to both steering and organizing committee who have well-coordinated and collaborated in actualizing the seminar.

Director of Postgraduate Unimed

Prof. Dr. Bornok Sinaga, M.Pd

TABLE OF CONTENTS

	PP
The Effect of Using Collaborative Learning Strategy on The Student’s Achievement in Writing Descriptive Text	1
<i>Nursyah Handayani</i>	
The Development of Multicultural Based Teaching Materials on the Observation Report Text for Senior High School Student	5
<i>Nurhasanah Permata Sari Sembiring, Khairil Ansari, Mutsyuhito Solin</i>	
The Power Behind Advertisement	10
<i>Endang Larasati</i>	
The Effect of Using Audio Visual Media on Student’s Vocabulary Mastery	13
<i>Resti Citra Dewi</i>	
Ideational Taxonomic Relation of Hata Pangupa in Tapanuli Selatan Wedding Ceremony	17
<i>Mutia Nasution</i>	
Pal’s Leadership Style and Teacher’s Performance of Islamic Junior High State School (MTsN) Hamparan Perak Deliserdang Distric	21
<i>Nurmala, Maria Ulfah Handayani, Denny Khairani, Desi Prawita</i>	
The Influence of Work Motivation on Teacher’s Job Performance of Vocational High School in Medan	24
<i>Darmawati, Sri Melfayetti, Selamat Triono Ahmad</i>	
Error Analysis by Using Tenses of Senior High School	28
<i>Hariyanto</i>	
The Traditional Custom and Ceremonial Tradition in Suku Anak Dalam Language	32
<i>Putri Ayu Lestari</i>	
The Impact of Internet Marketing on Success of Women Micro, Small and Medium Enterprises Innovation as Intervening Variable	36
<i>Fivi Rahmatas Sofiyah, Ami Dilham</i>	
The Effect of Cooperative Integrated Reading and Composition (CIRC) Technique on Students Reading Comprehension	40
<i>Linda Efrina Nasution</i>	
Translation Shifts in Translating Didong from Gayonese in to Bahasa Indonesia	44
<i>Wike Yurida</i>	
The Effect of Team Assisted Individualization (TAI) Strategy on Student’s Reading Comprehension	48
<i>Khairuni Syafitri</i>	
The Effect of Organizational Culture on Working Disciplines of Madrasah Ibtidaiyah Head Master in Deliserdang	53
<i>Muhammad Rifa’i, Syafaruddin Siahaan, Siman Nurhadi</i>	
Student’s Achievement on Reading Comprehension in Narrative Text by Using Think Pair Share Technique (TPS) at SMPN 1 Lubuk Pakam	58
<i>Eprima Lestari Hutabarat</i>	
Ideational Taxonomic Relations of Hobar on Parpokatan Orja of South Tapanuli	63
<i>Novria Grahmayanuri</i>	
The Effect of Using Task Based Learning Method on the Student’s Achievement in Reading Comprehension	69
<i>Nilam Ulami Siregar</i>	
Relationship of Initiation Structure and Consideration with Effectiveness Leadership	72
<i>Wanti Simanjuntak, Syaiful Sagala</i>	
The Effect of Storytelling Method on Students Writing Narrative Text Ability at the Eleventh Grade Students of MAN Panyabungan	77
<i>Armita Novriana Rambe</i>	

The Implementation of Curriculum 2013 in Vocational High School 4 Takengon.....	80
<i>Zainal Arifin, Herbert C.B. Manalu, Rini Deliana, Fitri Ariyanti</i>	
The Difference of Mathematical Problem Solving Ability by Using Student Teams Achievement Division (STAD) and Direct Instruction on System Linear Equation Two Variable in Grade VIII SMP Negeri 11 Medan.....	84
<i>Faradilla Bafaqih, Cecep Nandar</i>	
The Influence of Problem-Based Learning and Every One is A Teacher Here Models on Higher Order Thinking Skills in Environmental Pollution Topics.....	89
<i>Kurnia Putra, Hasruddin, Ahmad Rafiqi Tantawi</i>	
The Effect of Applying Task Based Learning (TBL) Approach on The Student's Ability in Writing Descriptive Paragraph.....	94
<i>Vijay Khana</i>	
Teacher's Language Style in English Course Class.....	98
<i>Dyan Yosephin Hutagalung</i>	
Differences Between Students Mark Taught With Co-Operative Learning Model Type TGT With Guess The Words Media Compared With Students Mark Taught With Co-Operative Learning Models With Words Square Media in Hydrocarbon Subject.....	101
<i>Hariani Siregar, Gulmah Sugiharti</i>	
Language Used by Male and Female of Darul Ilmi Murni.....	107
<i>Syukri Hidayati</i>	
The Use of Journal Writing in Improving Student's Writing Skill of Recount Text.....	110
<i>Muhammad Ilham Adha</i>	
Teacher and Student Perceptions Toward Practical Implementation Obstacles at Learning Chemistry	114
<i>Septra Pajar, Ramlan Silaban, Zainuddin Muchtar</i>	
The Analysis of of the Implementation and Problems of Lab Work on Chemistry Learning.....	120
<i>Elvira Lastri, Iis Siti Jahro, Marham Sitorus</i>	
The Implementation of Using Library Card and ICT Based Library Service System in Increasing Reading Interest of Primary School Students at Tanjung Gading of Batu Bara Regency	125
<i>Suci Amalia, Asih Menanti</i>	
Project Based Learning Tools Development on Alcohol and Ether Materials at Natural Science Faculty State University of Medan.....	132
<i>Nadia Armina Ramud, Jamalum Purba</i>	
The Development of Teaching Material to Write Explanation Text Based on Mind Map.....	138
<i>Pienti Mala Ningsih Manalu, Biner Ambarita, Rosmawaty Harahap</i>	
Improvement of Student Learning Outcome Using Model of Collaborative Based Lesson Study with Student's Worksheet on Materials Hydrolysis.....	141
<i>Agus Muliaman, Laila Majnun Hutagaol</i>	
The Application of Comic Learning Media to Improve Student's Achievement on Reduction and Oxidation Reaction Topic.....	146
<i>Anggi Desviana Siregar, Rini, Herdini</i>	
The Application of Cooperative Learning Round Robin to Improves Student Learning Achievement on the Subject of Electrolyte-Nonelectrolyte and Redoxin Class X SMAN 1 Seberida.....	150
<i>Nora Santi, Betty Holiwarni, Johni Azmi</i>	
The Effect of Combination Cooperative Learning Models Toward Learning Result.....	154
<i>Sapnita Idamarna Daulay</i>	
The Maintenance of Hokkien Among Chinese Speakers in Stabat.....	159
<i>Widya Ningsih</i>	
Effect of Blended Learning Model and Learning Style to Civic Education Learning Results in Class VII in Junior High School Panca Budi Medan.....	164
<i>Madina Qudsia Lubis, Reh Bungana Br.Perangin-angin, Mursid</i>	
EFL Student's Uses of Um as Fillers in Speaking.....	169
<i>Eka Riana</i>	

The Influence of Role Playing Method and Self Concept of Social Skills of 5-6 Years Old Child.....	172
<i>Rabitah Hanum Hasibuan, Anita Yus, Yusnadi</i>	
The Effect of Learning Approach and Personality Type Towards Learning Outcomes.....	178
<i>Dwhy Dinda Sari, Julaga Situmorang, Busmin Gurning</i>	
The Effect of Learning Models and Critical Thinking Skills on Social Science Learning Outcomes.....	183
<i>Juriah Siregar, Julaga Situmorang, Baharuddin</i>	
The Effect of Suggestopedia Method on Student's Achievement in Vocabulary.....	188
<i>Heppy Yersin Digita Purba</i>	
Application of Active Learning Strategy Type <i>Everyone is A Teacher Here (ETH)</i> to Increase Student Activity and Learning Outcomes in Chemistry on Salt Hydrolysis.....	193
<i>Wilta Fajrina, Darra Utari Ningsih, Sri Adelila Sari, Habibati</i>	
The Effect of Learning Strategy and Type of Personality on Student's Achievement in Economic Science.....	198
<i>Dewi Shara Dalimunthe</i>	
Development of Learning Tools Based on Realistic Mathematics Education of Ethnomatematics Nuances to Improve Mathematical Communication Skill Students in Junior High School 2 Percut Seituan.....	202
<i>Rizqi Jamiah, Edi Syahputra, Kms. M. Amin Fauzi</i>	
The Impact of Cooperative Learning Strategy and Learning Interest Toward the Learning Result of Second Year of Senior High School Students in 2016/2017.....	208
<i>Riswan Sianturi, Abdul Muin Sibuea, Edward Purba</i>	
The Development of Flash Program as a Media of Chemistry Learning on Chemical Equilibrium.....	210
<i>Lenni Khotimah Harahap, Albinus Silalahi, Iis Siti Jahro</i>	
The Ethnic Mandailing Tradition of Courtship (<i>Markusip</i>) and Revitalization Efforts in the Formation of the Character Youth.....	214
<i>Riadi Syafutra Siregar, Ratih Baiduri, Robert Sibarani</i>	
The Effect of Education on Unemployment Rate in Indonesia.....	218
<i>Rahmat Putra Ahmad Hasibuan, Dede Ruslan, Fitrawaty</i>	
Development of Explanatory Text Materials Based on Problem Solving in Senior High School Pematangsiantar.....	222
<i>Tiarma Nova Intan Malasari, Biner Ambarita, Malan Lubis</i>	
Learning Model of Strengthening Vocational Life Skills With Entrepreneurship Knowledge to Improve Student Learning Outcomes.....	226
<i>Husni Wardi Tanjung</i>	
A Critical Discourse Analysis Wardah Halal Beauty Advertisements.....	229
<i>Ayu Lestari Siregar, Mei Lastri E.F. Butar-Butar</i>	
Influence of Creative Problem Solving (CPS) Mathematics Learning Model to Mathematical Problem Solving and Self Efficacy Students of SMA Negeri 3 Binjai.....	232
<i>Nurchahaya Hutasoit, Martua Manullang, Ani Minarni</i>	
Differences in Mathematics Problems Solving Students With Implementing Learning Model Think Pair Square and Group Investigation in Junior High Schools.....	236
<i>Abdul Halim, Edy Surya</i>	
The Acquisition of Nouns and Verbs of Mandailingnese by Two-Year-Old Mandailing Children.....	240
<i>Marwah, Amrin Saragih, Sri Minda Murni</i>	
Utilization of ICT Learning in Senior High School Teladan Medan.....	244
<i>Tengku Salwa Miranti</i>	
The Effect of Cooperative Learning Model Based Interactive Media and Interpersonal Communication on Student's Achievement.....	248
<i>Catur Ayu Wulandari, Efendi Napitupulu, Keysar Panjaitan</i>	
Developing of Learning Material Based on Problem Based Learning to Increase Student's Mathematical Reasoning Ability and Self-Efficacy in Grade X SMA Negeri 1 Medan.....	253
<i>Anggi Paramita Daulay, Dian Armanto, Waminton R</i>	

Efforts to in Crease A Motivation to Learning Math Using “Program” Learning Model.....	257
<i>Linda Sari, Edi Syahputra</i>	
The Eford of Improving Mathematics Learning Outcome on Quadrilateral and Triangle Matter by Using Gradually Exerscise Strategy with The Assistance of Image Media.....	261
<i>Ady Putra, KMS. Muhammad Amin Fauzi, Yulita Moliq</i>	
The Difference on Students’ Mathematical Creative Thinking Ability Between Realistic Approach with Conventional in The State Madrasah Tsanawiyah 2 of Medan.....	264
<i>Siska Lestari, Zul Amry, Hasratuddin</i>	
Developing Learning Materials Using Realistic Mathematics Education to Increase Junior High School Students’ Mathematical Disposition and Connection Ability.....	269
<i>Syu’aida Hazar Nasution, Izwita Dewi, E.Elvis Napitupulu</i>	
Developing Learning Materials Using Problem Based Learning to Increase Senior High School Student’s Mathematical Disposition and Representation Ability.....	275
<i>Dewi Khairani, Mulyono, Izwita Dewi</i>	
The Effect of Question Students Have Strategy on The Result of Students Learning in Mathematics....	281
<i>Yuliani Aruan, Edi Syahputra</i>	
Analysis of Academic Supervision Competence and Managerial Supervision in Improving the Performance of Vocational High School Supervisors in Langsa City.....	284
<i>Muhammad Hendra, Saut Purba, Mian Siahaan</i>	
The Use in Active Learning Strategy of Learning Starts with a Question Type in the Mathematics Learning.....	289
<i>Jeni Putria Efil, Ani Minami, Pardomuan Sitompul</i>	
Improving the Ability to Learn Math by Using <i>Rubu’ al-Mujayyab</i> Media.....	293
<i>Muhammad Hidayat, Edi Syahputra, E.Elvis Napitupulu</i>	
The Impact of Education Cost and Government Spending the Interest Rate of Bank Indonesia Subtitle.....	297
<i>Julika Rahma Siagian, Dede Ruslan, Arwansyah</i>	
The Implementation of Problem Based Learning Models to Improve Mathematical Problem Solving Ability of Students on Arithmetic Materials in Class VII Junior High School.....	301
<i>Elidar Tanjung, Izwita Dewi, Mulyono</i>	
The Effect of Learning Strategies to Trial By Jury in Participationt Mathematics Learning Student of Junior High School.....	305
<i>Rizka Putri Rahayu, Ani Minami, Zul Amry</i>	
The Differences Between The Effect of Realistic Mathematics Learning Approach to Conventional Learning with The Students Mathematics Learning Outcomes in Junior High School of 38 Medan Grade VII.....	309
<i>Diah Ari Saputri, Syafari</i>	
The Effect of Value National Exam Standards at Learning Achievement of Students at Senior High School.....	312
<i>Nurdiana Fahmi, Bornok Sinaga, W. Rajagukguk</i>	
The Effect of Open Unemployment Rate and Level of Vocational High Education to Poverty in North Sumatera Province.....	315
<i>Zulaili, Indra Maipita</i>	
The Application of Cooperative Learning of Think-Pair-Share (TPS) Type to Increase the Students’ Ability of Problem-Solving.....	320
<i>Mudriqah Fadhilah Siregar, Zul Amry, Syafari</i>	
The Relationship Between Metacognitive With the Results of Learning Outcomes on the Fungi Topic..	324
<i>Elizabeth, Herbert Sipahutar, Syahmi Edi</i>	
Comparison of DNA Isolation Methods from Economically Valuable Plants in Indonesia.....	327
<i>Chairiyani Rizka, Fauziyah Harahap, Syahmi Edi</i>	
Development of Learning Device Based on Realistic Approach to Improve Problem Solving Ability Mathematic of Student at Junior High School.....	333
<i>Susanna Romaria Harahap</i>	

Efforts to Improve Understanding and Use Concept of Additive Fractions and Reduction Using Media Comics on Model Cooperative Learning Type Student Team Achievement Division (STAD).....	339
<i>Ratu Natalia Perangin-angin, Sahat Siahaan</i>	
The Effect of Cooperative Learning Type Games Teams Tournament (TGT) of Mathematics Learning Outcomes in the Fractions Matter.....	342
<i>Ansori Hasibuan, Asmin Panjaitan, Asrin Lubis</i>	
Development of Authentic Mathematics Assessment in Application of Problem Based Learning Model to Improve Problem Solving Ability and Understanding of Student Mathematics Concept at Namorambe Secondary Private Middle School Junior High.....	347
<i>Kartika Sari, Asmin, Bornok Sinaga</i>	
The Increasing of Student's Mathematics Problem Solving Ability and Learning Motivation Through Problem Based Learning Model.....	351
<i>Ridha Maulida</i>	
Dialect of Bataknese Language Used by Senior High School Students'.....	358
<i>Rafika Nur Rahman</i>	
The Effectiveness of Tandur Method of Improving Students' Learning Ability in Junior High School..	362
<i>Rahimatul Islam Elmujahidah, Mulyono, H. Banjarnahor</i>	
The Effect of Reciprocal Teaching Approach to Student Achievement on Ecosystem Topic in Junior High School.....	365
<i>Nilawati, Nurtika Dewi</i>	
Improvement of Student Learning Result by Using Cooperative Learning Model of Teams Games Tournament Type on Algebra Fuction Limit.....	367
<i>Rismalyah Manalu, E.Elvis Napitupulu, Martua Manullang</i>	
Noun Phrase of Culture Articles in The Jakarta Post.....	371
<i>Misdiana</i>	
Application of Cooperative Learning Model Type Think Pair Share for Improved Communication.....	374
<i>Nurhasanah</i>	
Implementation Model of School Policy in Constructing Behavior of Troubled Students.....	378
<i>Khairati Purnama Nasution, H. Syaiful Sagala</i>	
Efforts to Improving Creativity and Mathematics Learning Outcomes of Students With SPLET Strategy.....	382
<i>Antoni</i>	
The Influence of Physical Education in Establishment of Self Esteem.....	386
<i>Yustinus Tarigan, Tarsyat Nugraha</i>	
The Improvement of Dance Art Learning Achievement for Deaf Students Through Total Communication Application (Gesture/Signal) in Sekolah Luar Biasa (SLB) - E Negeri Pembina Tingkat Provinsi Sumatera Utara.....	390
<i>Siti Maryam</i>	
Innovation of Media Video Compact Disc Instructional Pencak Silat for High School.....	393
<i>Marli Perangin-angin, Imran Akhmad, Agung Sunarno</i>	
Achievement Strategy of the Indonesian National Qualification Framework Based Curriculum Generic Description of Sport Education Postgraduate Program Universitas Negeri Medan.....	397
<i>Muhammad Supriadi Siregar, Nurhayati Simatupang, Albadi Sinulingga</i>	
The Effect of Teaching Styles and Motor Ability as The Result of Study Dribbling Football.....	401
<i>Muhammad Fajar Doli Siregar</i>	
Semantic Analysis of English Loan Words in Indonesian Electronic Paper (Analisa).....	404
<i>Putri Nurul Rahmadani Siregar</i>	
Analysis of Empowerment of Competence Sinergy on Optimization of Education System.....	408
<i>Rameyanti Tampubolon</i>	
Inquiry-Based Video Learning Media For Overcoming Student Learning Difficulty (Case Study at State Junior High School 3 Lubuk Pakam Deliserdang District).....	412
<i>Megawati</i>	

The Development of Mathematics learning Tool Oriented on Problem Based Learning to Enhance Mathematics Problem Solving Ability and Self Efficacy.....	416
<i>Solawati Nainggolan, Mulyono, Hasratuddin</i>	
The Effectiveness of Contextual Inquiry-Based Worksheet on the Matter of Fungi on Food Towards Students' Higher-Order Thinking and Science Process Skills of Biology Education.....	422
<i>Nurjamiah Siregar, Hasruddin, Syahmi Edi</i>	
The Function of Limits Mastery on Mathematics Learning Achievement in Derivative Subject at the Eleventh Grade of Madrasah Aliyah Yayasan Pendidikan Karya Setia Padangsidempuan.....	426
<i>Hasna Dewi Ritonga</i>	
Effect of Education Level, Income, Inflation on Community Consumption Pattern in North Sumatera Province.....	431
<i>Nelly Hutajulu, Fitrawaty, M.Fitri Rahmadana</i>	
Application of Problem Based Learning Model Assisted by Cabri Software to Improve Problem Solving Ability of Mathematics Students.....	437
<i>Ahmad Darmawan, Edi Syahputra, Kms. M. Amin Fauzi</i>	
Optimization of Academic Supervision Competence of High School Supervisor in Karo Regency with Critical Events Model (CEM).....	441
<i>Karyawan Keliat, Yasaratodo Wau, Irsan</i>	
The Concept of Physics Learning Media Based Computer Animation.....	446
<i>Ratna Tanjung, Mukhtar, Efendi Napitupulu</i>	
Cultivating Children's Critical Attitude with Educational Philosophy.....	451
<i>Daulat Saragi</i>	

