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:

ISSN: 2548 - 4613
Vol. 2, December 2017
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 Isaiaas (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)

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 universities both in and out of North Sumatra 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 excels 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 colaborated in actualizing the seminar.

Director of Postgraduate Unimed

Prof. Dr. Bornok Sinaga, M.Pd
**TABLE OF CONTENTS**

The Effect of Using Collaborative Learning Strategy on The Student’s Achievement in Writing Descriptive Text .................................................................................................................. 1  
Nursyah Handayani

The Development of Multicultural Based Teaching Materials on the Observation Report Text for Senior High School Student.............................................................................................................................................. 5  
Nurhasanah Permata Sari Sembiring, Khairil Ansari, Mutsyuhiito Solin

The Power Behind Advertisement.................................................................................................................. 10  
Endang Larasati

The Effect of Using Audio Visual Media on Student’s Vocabulary Mastery ........................................ 13  
Resti Citra Dewi

Ideational Taxonomic Relation of Hata Pangupa in Tapanuli Selatan Wedding Ceremony .................. 17  
Mutia Nasution

Pal’s Leadership Style and Teacher’s Performance of Islamic Junior High State School (MTsN) Hamparan Perak Deliserdang Distric........................................................................................................................................... 21  
Nurmala, Maria Ulfah Handayani, Denny Khairani, Desi Prawita

The Influence of Work Motivation on Teacher’s Job Performance of Vocational High School in Medan ......................................................................................................................................................................................... 24  
Darmawati, Sri Melfayetti, Selamat Triono Ahmad

Error Analysis by Using Tenses of Senior High School ............................................................................. 28  
Hariyanto

The Traditional Custom and Ceremonial Tradition in Suku Anak Dalam Language ............................. 32  
Putri Ayu Lestari

The Impact of Internet Marketing on Success of Women Micro, Small and Medium Enterprises Innovation as Intervening Variable .................................................................................................................. 36  
Fivi Rahmatus Sofiyah, Ami Dilham

The Effect of Cooperative Integrated Reading and Composition (CIRC) Technique on Students Reading Comprehension ................................................................................................................. 40  
Linda Efrina Nasution

Translation Shifts in Translating Didong from Gayonese in to Bahasa Indonesia .................................. 44  
Wike Yurida

The Effect of Team Assisted Individualization (TAI) Strategy on Student’s Reading Comprehension ............................................................................................................................................................................ 48  
Khairuni Syafitri

The Effect of Organizational Culture on Working Disciplines of Madrasah Ibtidaiyah Head Master in Deliserdang ......................................................................................................................................................................................... 53  
Muhammad Rifai, Syafaruddin Siahaan, Siman Nurhadi

Student’s Achievement on Reading Comprehension in Narrative Text by Using Think Pair Share Technique (TPS) at SMPN 1 Lubuk Pakam .......................................................................................................................................................................................... 58  
Eprima Lestari Hutabarat

Ideational Taxonomic Relations of Hobar on Parpokatan Orja of South Tapanuli .................................. 63  
Novria Grahmayanuri

The Effect of Using Task Based Learning Method on the Student’s Achievement in Reading Comprehension ..................................................................................................................................................................................... 69  
Nilam Ulami Siregar

Relationship of Initiation Structure and Consideration with Effectiveness Leadership ........................... 72  
Wanti Simanjuntak, Syaiful Sagala

The Effect of Storytelling Method on Students Writing Narrative Text Ability at the Eleventh Grade Students of MAN Panyabungan ....................................................................................................... 77  
Armita Novriiana Rambe
The Implementation of Curriculum 2013 in Vocational High School 4 Takengon
Zainal Arifin, Herbert C.B. Manalu, Rini Deliana, Fitri Ariyanti

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
Faradilla Bafaqih, Cecep Nandar

The Influence of Problem-Based Learning and Every One is A Teacher Here Models on Higher Order Thingking Skills in Environmental Pollution Topics
Kurnia Putra, Hasruddin, Ahmad Rafiqi Tantawi

The Effect of Applying Task Based Learning (TBL) Approach on The Student’s Ability in Writing Descriptive Paragraph
Vijay Khana

Teacher’s Language Style in English Course Class
Dyan Yosephin Hutagalung

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
Hariani Siregar, Gulmah Sugiharti

Language Used by Male and Female of Darul Ilmi Murni
Syakri Hidayati

The Use of Journal Writing in Improving Student’s Writing Skill of Recount Text
Muhammad Ilham Adha

Teacher and Student Perceptions Toward Practical Implementation Obstacles at Learning Chemistry
Sepra Pajar, Ramlan Silaban, Zainuddin Muchtar

The Analysis of the Implementation and Problems of Lab Work on Chemistry Learning
Elvira Lastri, Iis Siti Jahro, Marham Sitorus

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
Suci Amalia, Asih Menanti

Project Based Learning Tools Development on Alcohol and Ether Materials at Natural Science Faculty State University of Medan
Nadia Armina Ramad, Jamalum Purba

The Development of Teaching Material to Write Explanation Text Based on Mind Map
Pienti Mala Ningsih Manalu, Biner Ambarita, Rosmawaty Harahap

Improvement of Student Learning Outcome Using Model of Collaborative Based Lesson Study with Student’s Worksheet on Materials Hydrolisis
Agus Muliaman, Laila Majnun Hutagaol

The Application of Comic Learning Media to Improve Student’s Achievement on Reduction and Oxidation Reaction Topic
Anggi Desviana Siregar, Rini, Herdini

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
Nora Santi, Betty Holimarni, Johri Azmi

The Effect of Combination Cooperative Learning Models Toward Learning Result
Sapnita Idamarna Daulay

The Maintenance of Hokkien Among Chinese Speakers in Stabat
Widya Ningsih

Effect of Blended Learning Model and Learning Style to Civic Education Learning Results in Class VII in Junior High School Panca Budi Medan
Madina Qudsia Lubis, Reh Bungana Br. Perangin-angin, Mursid

EFL Student’s Uses of Um as Fillers in Speaking
Eka Riana
The Influence of Role Playing Method and Self Concept of Social Skills of 5-6 Years Old Child...................... 172
Rabiah Hanum Hasibuan, Anita Yoo, Yusnadi

The Effect of Learning Approach and Personality Type Towards Learning Outcomes................................. 178
Dwoy Dinda Sari, Julaga Situmorang, Busmiin Gurning

The Effect of Learning Models and Critical Thinking Skills on Social Science Learning Outcomes..... 183
Juriah Siregar, Julaga Situmorang, Baharuddin

The Effect of Suggested Method on Student’s Achievement in Vocabulary ............................................. 188
Heppy Yersin Diga Purba

Application of Active Learning Strategy Type Everyone is A Teacher Here (ETH) to Increase Student Activity and Learning Outcomes in Chemistry on Salt Hydrolysis...................................................... 193
Wita Fajrinna, Darra Utari Ningsih, Sri Adelilla Sari, Habibati

The Effect of Learning Strategy and Type of Personality on Student’s Achievement in Economic Science................................................................. 198
Dewi Shara Dalimunthe

Development of Learning Tools Based on Realistic Mathematics Education of Ethnomathematics Nuances to Improve Mathematical Communication Skill Students in Junior High School 2 Percut Seituana............................................................................................... 202
Rizqi Jamiah, Edy Syahputra, Kms. M. Amin Fauzi

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
Riswan Sianturi, Abdul Muin Sibuea, Edward Purba

The Development of Flash Program as a Media of Chemistry Learning on Chemical Equilibrium........ 210
Lenni Khotimah Harahap, Albinus Silalahi, Isi Siti Jahro

The Ethnic Mandailing Tradition of Courtship (Markusip) and Revitalization Efforts in the Formation of the Character Youth................................................................. 214
Riadi Syafputra Siregar, Ratih Baiduri, Robert Sibarani

The Effect of Education on Unemployment Rate in Indonesia........................................................................ 218
Rahmat Putra Ahmad Hasibuan, Dede Ruslan, Fitrawaty

Development of Explanatory Text Materials Based on Problem Solving in Senior High School Pematangsiantar.............................................................................................................. 222
Tiarma Nova Intan Malasari, Biner Ambarita, Malan Lubis

Learning Model of Strengthening Vocational Life Skills With Entrepreneurship Knowledge to Improve Student Learning Outcomes............................................. 226
Husni Wardi Tanjung

A Critical Discourse Analysis Wardah Halal Beauty Advertisements.............................................................. 229
Ayu Lestari Siregar, Mei Lestri E.F. Butar-Butar

Influence of Creative Problem Solving (CPS) Mathematics Learning Model to Mathematical Problem Solving and Self Efficacy Students of SMA Negeri 3 Binjai.................................................. 232
Nurcahaya Hutaisot, Martua Manullang, Ani Minarni

Differences in Mathematics Problems Solving Students With Implementing Learning Model Think Pair Square and Group Investigation in Junior High Schools...................................................... 236
Abdul Halim, Edy Surya

The Acquisition of Nouns and Verbs of Mandailingnese by Two-Year-Old Mandailing Children.............. 240
Marwah, Amrin Saragih, Sri Minda Murni

Utilization of ICT Learning in Senior High School Teladan Medan.................................................................... 244
Tengku Salwa Miranti

The Effect of Cooperative Learning Model Based Interactive Media and Interpersonal Communication on Student’s Achievement.............................................................. 248
Catur Ayu Wialandari, Efendi Napitupulu, Keysar Panjaitan

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
Anggi Paramita Daulay, Dian Armanto, Waminton R
Efforts to increase motivation to learning math using “program” learning model ........................................ 257
Linda Sari, Edi Syahputra

The effect of improving mathematics learning outcome on quadrilateral and triangle matter by using gradually exercise strategy with the assistance of image media ........................................ 261
Ady Putra, KMS, Muhammad Amin Fauzi, Yulita Moliq

The difference on students' mathematical creative thinking ability between realistic approach with conventional in the state madrasah tsanawiyah 2 of medan ........................................ 264
Siska Lestari, Zul Amry, Hasratuddin

Developing learning materials using realistic mathematics education to increase junior high school students’ mathematical disposition and connection ability ........................................ 269
Sy’aida Hazar Nasution, Izwita Dewi, E. Elvis Napitupulu

Developing learning materials using problem based learning to increase senior high school students’ mathematical disposition and representation ability ........................................ 275
Dewi Khairani, Mulyono, Izwita Dewi

The effect of question students have strategy on the result of students learning in mathematics.... 281
Yuliani Aruan, Edi Syahputra

Analysis of academic supervision competence and managerial supervision in improving the performance of vocational high school supervisors in Langsa city ........................................ 284
Muhammad Hendra, Saut Purba, Mian Siahaan

The use in active learning strategy of learning starts with a question type in the mathematics learning ........................................ 289
Jeni Putria Efif, Ani Minami, Pardomuan Sitompul

Improving the ability to learn math by using rubu’ al-mujayyab media ........................................ 293
Muhammad Hidayat, Edi Syahputra, E. Elvis Napitupulu

The impact of education cost and government spending the interest rate of bank Indonesia subtitle ........................................ 297
Julika Rahma Siagian, Dedo Ruslan, Arwansyah

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
Elidar Tanjung, Izwita Dewi, Mulyono

The effect of learning strategies to trial by jury in participationist mathematics learning student of junior high school ........................................ 305
Rizka Putri Rahayu, Ani Minami, Zul Amry

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
Diaih Ari Sapatri, Syafhari

The effect of value national exam standards at learning achievement of students at senior high school ........................................ 312
Nurdiana Fahmi, Bornok Sinaga, W. Rajagukguk

The effect of open unemployment rate and level of vocational high education to poverty in Sumatera Province ........................................ 315
Zulaili, Indra Maiptia

The application of cooperative learning of think-pair-share (TPS) type to increase the students’ ability of problem-solving ........................................ 320
Muirdiqah Fadhilah Siregar, Zul Amry, Syafhari

The relationship between metacognitive with the results of learning outcomes on the fungi topic ........................................ 324
Elizabeth, Herbert Sipahutar, Syahmi Edi

Comparison of DNA Isolation Methods from Economically Valuable Plants in Indonesia ........................................ 327
Chairiyani Rizka, Fauziyah Harahap, Syahmi Edi

Development of Learning Device Based on Realistic Approach to Improve Problem Solving Ability Mathematic of Student at Junior High School ........................................ 333
Susanna Romaria Harahap
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
Ratu Natalia Perangin-angin, Sahat Siahaan

The Effect of Cooperative Learning Type Games Teams Tournament (TGT) of Mathematics Learning Outcomes in the Fractions Matter ................................................................. 342
Ansori Hasibuan, Asmin Panjaitan, Asrin Lubis

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
Kurtika Sari, Asmin, Bornok Sinaga

The Increasing of Student's Mathematics Problem Solving Ability and Learning Motivation Through Problem Based Learning Model ......................................................... 351
Ridha Maulida

Dialect of Batakinese Language Used by Senior High School Students’................................. 358
Rafika Nur Rahman

The Effectiveness of Tandur Method of Improving Students’ Learning Ability in Junior High School. Rahmatul Islam Elmujahidah, Mulyono, H. Banjarnahor

The Effect of Reciprocal Teaching Approach to Student Achievement on Ecosystem Topic in Junior High School................................................................. 365
Nilawati, Nurtika Dewi

Improvement of Student Learning Result by Using Cooperative Learning Model of Teams Games Tournament Type on Algebra Function Limit ......................................................... 367
Rismalyah Manalu, E. Elvis Napitupulu, Martua Manullang

Noun Phrase of Culture Articles in The Jakarta Post ................................................................. 371
Misiana

Application of Cooperative Learning Model Type Think Pair Share for Improved Communication........ 374
Nurhasanah

Implementation Model of School Policy in Constructing Behavior of Troubled Students..................... 378
Khairtati Purnama Nasution, H. Syaiful Sagala

Efforts to Improving Creativity and Mathematics Learning Outcomes of Students With SPLET Strategy ................................................................. 382
Antoni

The Influence of Physical Education in Establishment of Self Esteem ........................................ 386
Yustinus Tarigan, Tarsyati Nugraha

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
Siti Maryam

Innovation of Media Video Compact Disc Instructional Pencak Silat for High School .......................... 393
Marli Perangin-angin, Imran Akhmad, Agung Sunarno

Achievement Strategy of the Indonesian National Qualification Framework Based Curriculum Generic Description of Sport Education Postgraduate Program Universitas Negeri Medan ........ 397
Muhammad Supriadi Siregar, Nurhayati Simatupang, Albadi Sinulingga

The Effect of Teaching Styles and Motor Ability as The Result of Study Dribbling Football .................. 401
Muhammad Fajar Doli Siregar

Semantic Analysis of English Loan Words in Indonesian Electronic Paper (Analisa) ......................... 404
Putri Nurul Rahmadani Siregar

Analysis of Empowerment of Competence Sinergity on Optimization of Education System ............. 408
Rameyanti Tampubolon

Inquiry-Based Video Learning Media For Overcoming Student Learning Difficulty (Case Study at State Junior High School 3 Lubuk Pakam Deliserdang District) ........................................... 412
Megawati
The Development of Mathematics Learning Tool Oriented on Problem Based Learning to Enhance Mathematics Problem Solving Ability and Self Efficacy
Solawati Nainggolan, Mulyono, Hasratuddin

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
Nurjamiah Siregar, Hasruddin, Syahmi Edi

The Function of Limits Mastery on Mathematics Learning Achievement in Derivative Subject at the Eleventh Grade of Madrasah Aliyah Yayasan Pendidikan Karya Setia Padangsidimpuan
Hasna Dewi Ritonga

Effect of Education Level, Income, Inflation on Community Consumption Pattern in North Sumatera Province
Nelly Hutajulu, Fitrawaty, M.Fitri Rahmadana

Application of Problem Based Learning Model Assisted by Cabri Software to Improve Problem Solving Ability of Mathematics Students
Ahmad Darmawan, Edi Syahputra, Kms. M. Amin Fauzi

Optimization of Academic Supervision Competence of High School Supervisor in Karo Regency with Critical Events Model (CEM)
Karyawan Keliat, Yasaratodo Wau, Irsan

The Concept of Physics Learning Media Based Computer Animation
Ratna Tanjung, Mukhtar, Efendi Napitupulu

Cultivating Children’s Critical Attitude with Educational Philosophy
Daulat Saragi
The Effect of Value National Exam Standards at Learning Achievement of Students at Senior High School

Nurdiana Fahmi
Department Of Mathematic Education
Postgraduate Program Universitas Negeri Medan
Medan, Indonesia
e-mail: dhyanfahmi58@gmail.com

Bornok Sinaga
Universitas Negeri Medan
Medan, Indonesia

W. Rajagukguk
Universitas Negeri Medan
Medan, Indonesia

Abstract – The National standardized exam value each year turn to higher. Indirectly this encourages students to study harder. This research aims to find out whether there is a significant effect of the increase in the standard value of national examinations on mathematics learning achievement students. This study is descriptif qualitative using random sampling. The data collection tool in the research is the questionnaire instrument and the data of the grade report value. The questionnaire instrument contains 15 items that have been in validation and reliability. The result of t-test analyzed show that the effect of value national standard examination is 2.23 with ph-gained 0.00 less than 0.05. This means H₀ refused and Hₐ so there is significant effect of the increase in the standard value of national examination effects the mathematics learning achievement examination at Senior High School is 41%, while 49% is effect by other matters.

Keywords: national examination, student learning achievement

I. INTRODUCTION

Education is the future assets in the form of qualified human resources. Kalitas enhancement of human resources need to be handled by a good system.[1]. The purpose of government in promoting education for the better, one of which is by improving the quality of students’ graduation. To improve the quality of education of students passing the national exam as the government set the graduation exam. National exam standard value every year turn into higher than the previous year, in 2008 the value of passing standard for each subject in national exam was 5.25 and in 2009 changed to 5.5. [9].

Lesson being examined is science majors Mathematics, Indonesian, English, Physics, Biology and Chemistry and for the Social Sciences namely Mathematics, Indonesian, English, History, Geography and Economics with a degree of difficulty increases.[2] mathematics is a lesson that is considered difficult to understand for most students, senior high school at Angkasa lanud 1st Medan also think math is very difficult to understand. There are several factors that cause students to feel hard in math among others, the mathematics are subjects related to the abstract, the math requires high concentration, even teachers can also be a cause for example the exact method used by teachers in presenting the material so that it can make students feel interested. [4].

The increase in the value of national standardized tests of mathematics in particular subjects receive different responses from grade XII students senior high school Angkasa lanud 1st Medan. Some students responded positively to the increase in the value of the national exam standard. Indirectly increase in value of the national test standards, especially in math can encourage high school students of class XII senior high school Angkasa lanud 1st Medan. For example, hours of learning mathematics is added, as follows tutoring, repeat - the lessons have been passed back and talk to the teacher about the material included in the national exam later.

Indirectly increase in value of the national test standards, especially in math can encourage high school students of class XII senior high school Angkasa lanud 1st Medan to study harder. The increase in the value of national test standards change the way students learn positive effect on learning achievement or could have no effect at all on mathematics achievement depends on each students lived.
Based on the background of the problem, researchers only limit is how much influence the increase in national test scores on student achievement in the XII grade of senior high school at Angkasa lanud 1st Medan. The purpose of this study is to determine how much influence on the rising value of the standard national exam mathematics achievement of students the XII grade of senior high school at Angkasa lanud 1st Medan.

II. METHODOLOGY

This conducted in senior high school Angkasa lanud 1st Medan in March 2009. The population of this research that all high school students of XII grade senior high school Angkasa lanud 1st Medan that consists of three classes totaling 105 people. Samples of this study were taken using random sampling technique which takes randomly from the population. Sampal of this study is 51 students of grade XII senior high school Angkasa lanud 1st Medan. This type of research is descriptive research because the purpose of this study is to determine the effect of the increase in value of the national exam standard. According Sudjana [6] "is a descriptive study that describes the research methods and interpret the object in accordance with what is".

The variables used in this study there are 2 kinds of the dependent variable and independent variables.

1. Variables dependence of national exam standard value (X)
2. Variable independence: mathematics learning achievement (Y)

Instrument data collection in this study there were 2 that uses a questionnaire and take a final semester report card value data class XII students in mathematic. Questionnaires were given to students of class XII contains materials that have been prepared in accordance with problems related to the rising value of national standardized tests are the attitudes of high school students of the XII grade of senior high school Angkasa lanud 1st Medan in facing the problem of rising value of the national exam standard.

The questionnaire item number 25, but only 15 items are fit for use according to the validation has been carried out. On each item questionnaire using Likert scale with alternative options "Strongly Agree", "Disagree", "disagree" and "Strongly disagree". Each choice answers were weighted as follows:

1. Option answer "Strongly Agree" rated four
2. options answer "Agree" rated three
3. options "do not agree" rated 2
4. options answer "strongly disagree" rated 1

To avoid the wrong choice the questionnaire expressed in two forms, namely statements that are positive and negative. The following statement of the questionnaire are positive and negative.

<table>
<thead>
<tr>
<th>No</th>
<th>Indicator</th>
<th>Item Positive</th>
<th>Item Negative</th>
<th>Total item</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Attitude of students in support of the increase in value of the national test standards, especially in math</td>
<td>1, 4, 5, 15</td>
<td>3, 2</td>
<td>6</td>
</tr>
<tr>
<td>2</td>
<td>The attitude of the students towards the influence of rising national exam standard grades with mathematics achievement</td>
<td>16, 17, 11, 13, 14, 8, 9</td>
<td>3, 5</td>
<td>9</td>
</tr>
</tbody>
</table>

III. RESULTS AND DISCUSSION

Based on the data obtained from the research, it was found despite the rise in value against the standard national exam mathematics achievement of students senior high school Angkasa lanud 1st Medan academic year 2008 / 2009. The national test standards make students Angkasa 1 Lanud Medan make students study hard to achieve his achievements, the students will not want to not pass the national exams, especially in math which have been less preferred by students. The achievement scores increased due to the additional hours outside of school hours learning, especially math. From the analysis of data have been obtained then the results of the correlation is $r_{xy} = 0.47$ which means that illustrate the relationship of variable X to variable Y is the influence of the increase in the standard national exams on student achievement the XII grade of senior high school Angkasa lanud 1st Medan. To see the success of the correlation coefficient was then tested using the t test. Test result $t$ obtained was 7.5 and the price $t_{table}$ with a significant level of 5% level of 95% is 2.23. Results obtained $t_{count} > t_{table}$ which means $h_0$ rejected and $h_1$ accepted that the influence of rising standards of the national exam (variable X) to students' mathematics learning achievement (Y). Then $h_0$ rejected and $h_1$ accepted that despite the rise in value against the standard national exam mathematics achievement of senior high school Angkasa lanud 1st Medan academic Year 2008 - 2009.

How much influence on the increase in value of the national test standards of learning achievement high school math class XII student at Angkasa 1st Medan searched using the formula obtained value determination is 41%. The effect of rising standards of national test scores senior high school Angkasa lanud 1st Medan field does not reach 50%, this is because not all students of the XII grade of senior high school Angkasa lanud 1st Medan that the increase in the value of the standard national exams affect their learning achievement becomes more well, and achievement that they can be caused by something - else.

IV CONCLUSIONS

The conclusion that can be drawn from this research that the national exam standard increment affect mathematics achievement of students of the XII grade of senior high
school Angkasa lanud 1st. The influence of the increase in the standard national exams on student achievement the XII grade of senior high school Angkasa lanud 1st Medan amounted to 41%.

REFERENCE