



1. Dilarang mengutip sebagian atau seluruh karya tulis ini tanpa mencantumkan dan menyebutkan sumber :
 - a. Pengutipan hanya untuk kepentingan pendidikan, penelitian, penulisan karya ilmiah, penyusunan laporan, penulisan kritik atau tinjauan suatu masalah.
 - b. Pengutipan tidak merugikan kepentingan yang wajar dari Perpustakaan IAIN Syekh Nurjati Cirebon.
2. Dilarang mengumumkan atau memperbanyak karya ilmiah ini dalam bentuk apapun tanpa seijin Perpustakaan IAIN Syekh Nurjati Cirebon.

© Hak Cipta Milik Perpustakaan IAIN Syekh Nurjati Cirebon
Hak Cipta Dilindungi Undang-Undang

**THE INFLUENCE OF TEACHERS' PEDAGOGICAL COMPETENCE
TOWARD THE STUDENTS' ACHIEVEMENT IN LEARNING MATH
AT ELEVENTH CLASS OF SENIOR HIGH SCHOOL
IN KUNINGAN REGENCY**

A THESIS



MELDA ARIYANTI
Reg. Number: 58450985

**MATHEMATIC EDUCATION DEPARTEMENT
THE STATE INSTITUTE FOR ISLAMIC STUDIES
SYEKH NURJATI CIREBON
2012 M/ 1433 H**



1. Dilarang mengutip sebagian atau seluruh karya tulis ini tanpa mencantumkan dan menyebutkan sumber :
 - a. Pengutipan hanya untuk kepentingan pendidikan, penelitian, penulisan karya ilmiah, penyusunan laporan, penulisan kritik atau tinjauan suatu masalah.
 - b. Pengutipan tidak merugikan kepentingan yang wajar dari Perpustakaan IAIN Syekh Nurjati Cirebon.
2. Dilarang mengumumkan atau memperbanyak karya ilmiah ini dalam bentuk apapun tanpa seizin Perpustakaan IAIN Syekh Nurjati Cirebon.

Hak Cipta Dilindungi Undang-Undang
© Hak Cipta Milik Perpustakaan IAIN Syekh Nurjati Cirebon

**THE INFLUENCE OF TEACHERS' PEDAGOGICAL COMPETENCE
TOWARD THE STUDENTS' ACHIEVEMENT IN LEARNING MATH
AT ELEVENTH CLASS OF SENIOR HIGH SCHOOL
IN KUNINGAN REGENCY**

A THESIS

Submitted to the Mathematic Education Departement of IAIN Syekh Nurjati
Cirebon in Partial Fulfillment of the Requirements for the Islamic Scholar in
Mathematic Education Department (S.Pd.I)

MELDA ARIYANTI
Reg. Number: 58450985

RELIGIOUS MINISTRY OF INDONESIA
THE STATE INSTITUTE FOR ISLAMIC STUDIES (IAIN)
SYEKH NURJATI CIREBON
2012 M/ 1433 H



1. Dilarang mengutip sebagian atau seluruh karya tulis ini tanpa mencantumkan dan menyebutkan sumber :
 - a. Pengutipan hanya untuk kepentingan pendidikan, penelitian, penulisan karya ilmiah, penyusunan laporan, penulisan kritik atau tinjauan suatu masalah.
 - b. Pengutipan tidak merugikan kepentingan yang wajar dari Perpustakaan IAIN Syekh Nurjati Cirebon.
2. Dilarang mengumumkan atau memperbanyak karya ilmiah ini dalam bentuk apapun tanpa seizin Perpustakaan IAIN Syekh Nurjati Cirebon.

ABSTRACT

Melda Ariyanti. Reg. Number 58450985. *The Influence of Teachers' Pedagogical Competence toward The Students' Achievement in Learning Math at Eleventh Class of Senior High School in Kuningan Regency*. Thesis. Cirebon: Faculty of Tarbiyah, Mathematic Education Departement of IAIN Syekh Nurjati Cirebon, July 2012.

There were some teachers who did not meet the pedagogical competence, namely the management of student learning with the several of reason such as: teachers business, absence in the classroom and till the pedagogical competence of teachers has not been fully implemented. The student are motivated and created in learning tend to decline so their learning achievement descreases.

Professionalism of teachers indicated one of them with pedagogical competencies include understanding the learners, design and implementation of learning, the evaluation of student learning and development. In teaching and learning, students experience a change in the field of knowledge, understanding, skills and attitudes. The existence of these changes can be seen from the resulting learning achievements of students working on the activities of the test questions and tasks given by the teacher. The greater the teachers' pedagogical competence of teachers is expected that students' math achievement will increase.

The aims of the research are to find out how well the teachers' pedagogical competence in learning math is, to find out how far the students' achievement in learning math is, and how far the influence of teachers' pedagogical competence toward the students' achievement in learning math is.

The approach of the research is using quantitative approach. The techniques of collecting the data are by using questionare, and test. The population of the research is all of the student of the eleventh class of senior high school in Kuningan Regency, namely 848 students. The writer has taken the sampel of the research just 23% out of the whole population, that is 200 students.

The analysis of data obtained a correlation coefficient of 0.960, the value is included into the high correlation. The analytical results obtained by testing the hypothesis H_0 is rejected and H_a accepted so that it can be concluded that there is the influence of teachers' pedagogic competence of the students studying mathematics achievement by 92% and the remaining 8% is determined among other factors.

Keywords: the pedagogical competence and learning achievement



1. Dilarang mengutip sebagian atau seluruh karya tulis ini tanpa mencantumkan dan menyebutkan sumber :
 - a. Pengutipan hanya untuk kepentingan pendidikan, penelitian, penulisan karya ilmiah, penyusunan laporan, penulisan kritik atau tinjauan suatu masalah.
 - b. Pengutipan tidak merugikan kepentingan yang wajar dari Perpustakaan IAIN Syekh Nurjati Cirebon.
2. Dilarang mengumumkannya atau memperbanyak karya ilmiah ini dalam bentuk apapun tanpa seizin Perpustakaan IAIN Syekh Nurjati Cirebon.

PREFACE

In the name of Allah, Most Gracious, Most Merciful. All praises and thankfulness be to Allah because of His permission the writer has been able to finish this thesis. May invocation and safety always be given to the Prophet Muhammad (Peace Be Upon Him), his family, colleagues, and followers up to the end of the world.

This thesis is entitled in: **“THE INFLUENCE OF TEACHERS’ PEDAGOGICAL COMPETENCE TOWARD THE STUDENTS’ ACHIEVEMENT IN LEARNING MATH AT ELEVENTH CLASS OF SENIOR HIGH SCHOOL IN KUNINGAN REGENCY”**. It is presented to the Mathematic Education Departement of IAIN Syekh Nurjati Cirebon in partial fulfillment of the requirements for the Islamic Scholar in Mathematic Education.

In writing this thesis, there are so many people who have participated, supported, helped, and advised. So in this opportunity the writer would like to convey her sincere gratitude to:

1. Prof. DR. H. Maksum, M.A., Chairman of IAIN Syekh Nurjati Cirebon
2. Dr. Saefudin Zuhri, M.Ag., Dean of Faculty Tarbiyah
3. Toheri, M.Si., Chairman of Mathematic Department
4. Drs. H. Toto Syatori Nasehuddien, M.Pd., as the first supervisor
5. Dra. Mumun Munawwaroh, M.Si., as the second supervisor
6. Reza Oktiana Akbar, M.Pd., as the first examiner
7. Mustopa, M.Ag., as the second examiner



1. Dilarang mengutip sebagian atau seluruh karya tulis ini tanpa mencantumkan dan menyebutkan sumber :
 - a. Pengutipan hanya untuk kepentingan pendidikan, penelitian, penulisan karya ilmiah, penyusunan laporan, penulisan kritik atau tinjauan suatu masalah.
 - b. Pengutipan tidak merugikan kepentingan yang wajar dari Perpustakaan IAIN Syekh Nurjati Cirebon.
2. Dilarang mengumumkan atau memperbanyak karya ilmiah ini dalam bentuk apapun tanpa seizin Perpustakaan IAIN Syekh Nurjati Cirebon.

8. All lectures of IAIN Syekh Nurjati Cirebon that cannot be mentioned one by one for their motivation
9. Drs. Agus Sadeli, M.Pd., as secretary of Dinas Pendidikan Pemuda dan Olahraga Kabupaten Kuningan
10. Drs. Bambang Sri Sadono, M.Pd., the headmaster of SMA Negeri 2 Kuningan
11. Drs. Agus Syarifudin, M.Si., the headmaster of SMA Negeri 1 Cilimus
12. Drs. H. Sudrajat, M.Pd., the headmaster of SMA Negeri 1 Luragung
13. Drs. H. Rachmat Setiawan, M.M.Pd., the headmaster of SMA Negeri 1 Mandirancan
14. Drs. Endang Kandar, M.Pd., the headmaster of SMA Negeri 1 Darma
15. Drs. Dede Mulyana, the headmaster of SMA Kosgoro Kuningan
16. Umar, S.Ag, the headmaster of SMA Manba'ul Ulum Pancalang
17. Drs. Robbani, MM, M.Ag., the headmaster of SMA PUI Ciwedus Timbang

The writer realized that this thesis is still far from being perfect and of course there are many mistakes both in the content and in the arrangement of this thesis. Therefore, any comment and suggestion given by the readers would be gladly welcome.

Hopefully, this thesis will be usefull for the readers especially, for the writer herself and also for the students of The State Institute for Islamic Studies (IAIN) Syekh Nurjati Cirebon.

Cirebon, July 2012

The writer,



1. Dilarang mengutip sebagian atau seluruh karya tulis ini tanpa mencantumkan dan menyebutkan sumber :
a. Pengutipan hanya untuk kepentingan pendidikan, penelitian, penulisan karya ilmiah, penyusunan laporan, penulisan kritik atau tinjauan suatu masalah.
b. Pengutipan tidak merugikan kepentingan yang wajar dari Perpustakaan IAIN Syekh Nurjati Cirebon.
2. Dilarang mengumumkan atau memperbanyak karya ilmiah ini dalam bentuk apapun tanpa seizin Perpustakaan IAIN Syekh Nurjati Cirebon.

TABLE OF CONTENTS

PREFACE	i
TABLE OF CONTENTS	iii
THE LIST OF TABLES AND DIAGRAM	vi
THE LIST OF APPENDIXS	ix
CHAPTER I INTRODUCTION	1
A. The Background of the Problem.....	1
B. The Identification of the Problem	5
C. The Limitation of the Problem.....	6
D. The Questions of the Research	6
E. The Aims of the Research.....	6
F. The Usefulness of the Research	7
CHAPTER II THE THEORETICAL FOUNDATIONS	
A. The Framework of Theory.....	8
1. The Teacher’s Competence	8
2. The Teachers’ Pedagogical Competence	10
3. Learning Achievement.....	12
B. Relevant Research.....	16
C. The Framework of Thinking.....	18
D. The Research Hypothesis	20
CHAPTER III THE METHODOLOGY OF THE RESEARCH	
A. The Place and Time of Research	21
B. The Method and Design of Research.....	22



1. Dilarang mengutip sebagian atau seluruh karya tulis ini tanpa mencantumkan dan menyebutkan sumber :
 - a. Pengutipan hanya untuk kepentingan pendidikan, penelitian, penulisan karya ilmiah, penyusunan laporan, penulisan kritik atau tinjauan suatu masalah.
 - b. Pengutipan tidak merugikan kepentingan yang wajar dari Perpustakaan IAIN Syekh Nurjati Cirebon.
2. Dilarang mengumumkan atau memperbanyak karya ilmiah ini dalam bentuk apapun tanpa seizin Perpustakaan IAIN Syekh Nurjati Cirebon.

Hak Cipta Dilindungi Undang-Undang

© Hak Cipta Milik Perpustakaan IAIN Syekh Nurjati Cirebon

C. The Population and Sample of the Research	23
D. The Techniques of Collecting the Data	26
1. The research instrument	26
2. The conceptual definition.....	28
3. The operational definition	29
4. The lattice instruments	30
5. The trial instruments	30
6. The techniques of collecting the data.....	43
E. The Techniques of Analyzing the Data.....	47
1. Prerequisite Test Research	49
a. Normality test.....	44
b. Homogeneity test	45
2. Tests of Hypotheses	46
F. Statistical hypothesis	48

CHAPTER IV THE RESEARCH FINDINGS

A. Description of Data.....	49
1. The Teachers' Pedagogical Competence	49
2. The Students' Avhievement in Learning Math.....	71
B. Data Analysis	74
a. Residual Normality Test	74
b. Homogeneity	75
c. Hypothesis Testing.....	75
C. Discussion	76



1. Dilarang mengutip sebagian atau seluruh karya tulis ini tanpa mencantumkan dan menyebutkan sumber :
 - a. Pengutipan hanya untuk kepentingan pendidikan, penelitian, penulisan karya ilmiah, penyusunan laporan, penulisan kritik atau tinjauan suatu masalah.
 - b. Pengutipan tidak merugikan kepentingan yang wajar dari Perpustakaan IAIN Syekh Nurjati Cirebon.
2. Dilarang mengumumkan atau memperbanyak karya ilmiah ini dalam bentuk apapun tanpa seijin Perpustakaan IAIN Syekh Nurjati Cirebon.

© Hak Cipta Milik Perpustakaan IAIN Syekh Nurjati Cirebon
Hak Cipta Dilindungi Undang-Undang

CHAPTER V CLOSING

A. Conclusion.....	78
B. Suggestion.....	79
1. Practical	79
2. Advanced Research.....	79

BIBLIOGRAPHY

APPENDIX



1. Dilarang mengutip sebagian atau seluruh karya tulis ini tanpa mencantumkan dan menyebutkan sumber :
 - a. Pengutipan hanya untuk kepentingan pendidikan, penelitian, penulisan karya ilmiah, penyusunan laporan, penulisan kritik atau tinjauan suatu masalah.
 - b. Pengutipan tidak merugikan kepentingan yang wajar dari Perustakaan IAIN Syekh Nurjati Cirebon.
2. Dilarang mengumumkan atau memperbanyak karya ilmiah ini dalam bentuk apapun tanpa seijin Perustakaan IAIN Syekh Nurjati Cirebon.

THE LIST OF TABLES AND DIAGRAM

TABLE CHAPTER III

Table 3.1	The Schedule of Research.....	22
Table 3.2	Balancing Total Population and Sample High School Students XI Class in Kuningan Regency	25
Table 3.3	Classification Reliability Coefficient.....	37
Table 3.4	Classification Level of Difficulty	39
Table 3.5	The Classification Differentiator	42
Table 3.6	Interpretation of Strength of Correlation	48

TABLE CHAPTER IV

Table 4.1	Interpretation of Score Questionnaire.....	50
Table 4.2	Data on the Percentage of Statement Questionnaire No. 1.....	51
Table 4.3	Data on the Percentage of Statement Questionnaire No. 2.....	51
Table 4.4	Data on the Percentage of Statement Questionnaire No. 3.....	52
Table 4.5	Data on the Percentage of Statement Questionnaire No. 4.....	52
Table 4.6	Data on the Percentage of Statement Questionnaire No. 5.....	53
Table 4.7	Data on the Percentage of Statement Questionnaire No. 6.....	53
Table 4.8	Data on the Percentage of Statement Questionnaire No. 7.....	54
Table 4.9	Data on the Percentage of Statement Questionnaire No. 8.....	55
Table 4.10	Data on the Percentage of Statement Questionnaire No. 9.....	55
Table 4.11	Data on the Percentage of Statement Questionnaire No. 10.....	56



1. Dilarang mengutip sebagian atau seluruh karya tulis ini tanpa mencantumkan dan menyebutkan sumber :
 - a. Pengutipan hanya untuk kepentingan pendidikan, penelitian, penulisan karya ilmiah, penyusunan laporan, penulisan kritik atau tinjauan suatu masalah.
 - b. Pengutipan tidak merugikan kepentingan yang wajar dari Perustakaan IAIN Syekh Nurjati Cirebon.
2. Dilarang mengumumkan atau memperbanyak karya ilmiah ini dalam bentuk apapun tanpa seizin Perustakaan IAIN Syekh Nurjati Cirebon.

Table 4.12	Data on the Percentage of Statement Questionnaire No. 11	56
Table 4.13	Data on the Percentage of Statement Questionnaire No. 12	57
Table 4.14	Data on the Percentage of Statement Questionnaire No. 13	57
Table 4.15	Data on the Percentage of Statement Questionnaire No. 14	58
Table 4.16	Data on the Percentage of Statement Questionnaire No. 15	58
Table 4.17	Data on the Percentage of Statement Questionnaire No. 16	59
Table 4.18	Data on the Percentage of Statement Questionnaire No. 17	59
Table 4.19	Data on the Percentage of Statement Questionnaire No. 18	60
Table 4.20	Data on the Percentage of Statement Questionnaire No. 19	61
Table 4.21	Data on the Percentage of Statement Questionnaire No. 20	61
Table 4.22	Data on the Percentage of Statement Questionnaire No. 21	62
Table 4.23	Data on the Percentage of Statement Questionnaire No. 22	62
Table 4.24	Data on the Percentage of Statement Questionnaire No. 23	63
Table 4.25	Data on the Percentage of Statement Questionnaire No. 24	63
Table 4.26	Data on the Percentage of Statement Questionnaire No. 25	64
Table 4.27	Data on the Percentage of Statement Questionnaire No. 26	64
Table 4.28	Data on the Percentage of Statement Questionnaire No. 27	65
Table 4.29	Data on the Percentage of Statement Questionnaire No. 28	66
Table 4.30	Data on the Percentage of Statement Questionnaire No. 29	66
Table 4.31	Data on the Percentage of Statement Questionnaire No. 30	67
Table 4.32	Data on the Percentage of Statement Questionnaire No. 31	67
Table 4.33	Data on the Percentage of Statement Questionnaire No. 32	68
Table 4.34	Data on the Percentage of Statement Questionnaire No. 33	68



1. Dilarang mengutip sebagian atau seluruh karya tulis ini tanpa mencantumkan dan menyebutkan sumber :
 - a. Pengutipan hanya untuk kepentingan pendidikan, penelitian, penulisan karya ilmiah, penyusunan laporan, penulisan kritik atau tinjauan suatu masalah.
 - b. Pengutipan tidak merugikan kepentingan yang wajar dari Perustakaan IAIN Syekh Nurjati Cirebon.
2. Dilarang mengumumkan atau memperbanyak karya ilmiah ini dalam bentuk apapun tanpa seizin Perustakaan IAIN Syekh Nurjati Cirebon.

Table 4.35	Data on the Percentage of Statement Questionnaire No. 34.....	69
Table 4.36	Recapitulation Criteria Analysis Qustionaire Data Description Pedagogic Competence in the Learning of Mathematics	69
Table 4.37	Learning Mathematics Achievement Test Interpretation	72
Table 4.38	Interpretation of Learning Mathematic Achievement Test Value	72
Table 4.39	Description of Learning Mathematic Achievement.....	73
Table 4.40	Test of Normality.....	74
Table 4.41	Test of Homogeneity of Variances.....	75
Table 4.42	Nonparametric Correlation Test	76

THE DIAGRAM

Diagram 4.1	Diagram Analysis Questionnaire Data Description Pedagogic Competence in the Laerning of Mathematics	71
-------------	--	----



1. Dilarang mengutip sebagian atau seluruh karya tulis ini tanpa mencantumkan dan menyebutkan sumber :
 - a. Pengutipan hanya untuk kepentingan pendidikan, penelitian, penulisan karya ilmiah, penyusunan laporan, penulisan kritik atau tinjauan suatu masalah.
 - b. Pengutipan tidak merugikan kepentingan yang wajar dari Perpustakaan IAIN Syekh Nurjati Cirebon.
2. Dilarang mengumumkan atau memperbanyak karya ilmiah ini dalam bentuk apapun tanpa seizin Perpustakaan IAIN Syekh Nurjati Cirebon.

THE LIST OF APPENDIX

TABLE APPENDIX CHAPTER III

Table 3.1	List of Names Senior High School Public / Private Kuningan Regency	81
Table 3.2	The Lattice Questionnaire Instruments Teachers' Pedagogical Competence	82
Table 3.3	Teh Lattice Test Instruments Learning Mathematics Achievement Students in Grade XI IPA.....	87
Table 3.4	Teh Lattice Test Instruments Learning Mathematics Achievement Students in Grade XI IPS	89
Table 3.5	Questionnaire Sheets Trial Teachers' Pedagogical Competence	91
Table 3.6	Trial Test Sheet the Research Instrument IPA.....	95
Table 3.7	Test Answer Key Test Instruments Mathematics Achievement Students Learning IPA.....	99
Table 3.8	Trial Test Sheet the Research Instrument IPS	100
Table 3.9	Test Answer Key Test Instruments Mathematics Achievement Students Learning IPS	104
Table 3.10	Questionnaire Instruments Teachers' Pedagogical Competence	105
Table 3.11	Test Instrument Students' Achievement in Learning Mathematics IPA	109



1. Dilarang mengutip sebagian atau seluruh karya tulis ini tanpa mencantumkan dan menyebutkan sumber :
 - a. Pengutipan hanya untuk kepentingan pendidikan, penelitian, penulisan karya ilmiah, penyusunan laporan, penulisan kritik atau tinjauan suatu masalah.
 - b. Pengutipan tidak merugikan kepentingan yang wajar dari Perpustakaan IAIN Syekh Nurjati Cirebon.
2. Dilarang mengumumkan atau memperbanyak karya ilmiah ini dalam bentuk apapun tanpa seizin Perpustakaan IAIN Syekh Nurjati Cirebon.

Table 3.12	Answer Key Test Instruments Mathematics Achievement Students Learning IPA.....	111
Table 3.13	Test Instruments Students' Achievement in Learning Mathematics IPS	112
Table 3.14	Answer Key Test Instruments Mathematics Achievement Students Learning IPS	114
Table 3.15	Raw Data Questionnaire Testing Instruments Teachers' Pedagogical Competence.....	115
Table 3.16	Raw Data Test Instruments Learning Mathematics Achievement Students in Grade XI IPS	125
Table 3.17	Raw Data Test Instruments Learning Mathematics Achievement Students in Grade XI IPA.....	131
Table 3.18	Validity Questionnaire Teachers' Pedagogical Competence.....	135
Table 3.19	Validity Test Students' Achievement in Learning Mathematics in Grade XI IPS.....	149
Table 3.20	Validity Test Students' Achievement in Learning Mathematics in Grade XI IPA.....	158
Table 3.21	Calculation Problem Questionnaire Item Number 1	167
Table 3.22	Table r.....	170
Table 3.23	Recapitulation of Questionnaire Validity Test Teachers' Pedagogical Competence.....	171
Table 3.24	Calculation of Item No. 1 Subject Test Problem IPS	173



1. Dilarang mengutip sebagian atau seluruh karya tulis ini tanpa mencantumkan dan menyebutkan sumber :
 - a. Pengutipan hanya untuk kepentingan pendidikan, penelitian, penulisan karya ilmiah, penyusunan laporan, penulisan kritik atau tinjauan suatu masalah.
 - b. Pengutipan tidak merugikan kepentingan yang wajar dari Perustakaan IAIN Syekh Nurjati Cirebon.
2. Dilarang mengumumkan atau memperbanyak karya ilmiah ini dalam bentuk apapun tanpa seijin Perustakaan IAIN Syekh Nurjati Cirebon.

Table 3.25	Recapitulation of Test Validity Learning Mathematics Achievement Test Students in Grade XI IPS.....	175
Table 3.26	Calculation of Item No. 2 Subject Test Problem IPA.....	176
Table 3.27	Recapitulation of Test Validity Learning Mathematics Achievement Test Students in Grade XI IPA.....	178
Table 3.28	Reliability Test Results Teachers' Pedagogical Competence	179
Table 3.29	Reliability Test Results Learning Mathematics Achievement Test Students in Grade XI IPS	181
Table 3.30	Reliability Test Results Learning Mathematics Achievement Test Students in Grade XI IPA	183
Table 3.31	Calculation Results of Each Item Difficulty Index Class XI IPS Test Problem	185
Table 3.32	Calculation Results of Each Item Difficulty Index Class XI IPA Test Problem.....	186
Table 3.33	The Calculation Results of Item Problems Differentiator Each Class XI IPS Test.....	187
Table 3.34	The Calculation Results of Item Problems Differentiator Each Class XI IPA Test	188



CHAPTER I INTRODUCTION

A. The Background of the Problem

Education by the National Education Law No. 20 of 2003, Article 1, and paragraph (1)¹ is:

Conscious and deliberate effort to create an atmosphere of learning and the learning process so that learners actively develop the potential for him to have the spiritual power of religion, self-control, personality, intelligence, noble character, as well as the necessary skills themselves, society, nation and state.

Indonesia's human quality is generated through the implementation of quality education. Humans are given the ability to empower a broad and thorough education. Teachers and lecturers as men who have the function, role, and a very strategic position in the national education goals. The Law Number 20 in Year 2003 on National Education System, Article 39 paragraph (2) states that educators are professionals.² The position of teachers and lecturers as professionals makes them possess a vision of the learning organization in accordance with the principles of professionalism to meet the equal rights of every citizen to obtain a good education.

The position of teachers and lecturers as professionals aimed at implementing the national education system and bringing about national education goals, namely: "...the development of learners' potencies to become

¹ Fokusmedia. 2009. *Undang-Undang SISDIKNAS Sistem Pendidikan Nasional*. Bandung. page. 5

² *Ibid*, page. 18

a faithful, morally, healthy, knowledgeable, skilled, creative, independent man, and become a democratic and responsible citizen”.³

Teachers are human figures who occupy the position and play an important role in education. Whenever everyone questioned the education, the figure of the teacher issues should be involved in the agenda, especially the issue of formal education at schools. According to Syaiful Bahri, educators and teachers are professionals in charge of planning and carrying out the process of learning, assessing learning outcomes, coaching and training, and conduct research and community service, especially for educators in higher education. It can't be denied for the institutions of formal education are the teacher living world. At almost of the time, the teachers present at the school, the rest at home and in society.⁴

Professional teachers, in essence, are teachers who meet the competency requirements to perform the task of education and teaching. Therefore, talking about the aspects of professional competence of teachers means that the competences should be owned by a teacher.⁵ Law 14 of 2005 on Teachers and Lecturers Article 8 states "Teachers are obligated to have an academic qualification, competence, certification of educators, healthy and mental healthy, and have the ability to realize the goal of national education"⁶. And further, it was described in Article 10 paragraph (1) that "the competence of

³ Sinar Grafika . 2009. *Undang-Undang Republik Indonesia Nomor 14 Tahun 2005 tentang Guru dan Dosen*. Jakarta, page. v

⁴ Syaiful Bahri Djamarah, dkk. 2000. *Strategi Mengajar*. Jakarta: PT. Rineka Cipta, page. 54

⁵ Fachruddin Saudagar dan Ali Idrus. 2009. *Pengembangan Profesionalitas Guru*. Jakarta: Gaung Persada, page. 31-33

⁶ Sinar Grafika. *Op.Cit.*, page. 8

teachers referred to in Article 8 includes pedagogic, personal, social, and professional competence acquired through professional education”⁷.

Pedagogical competence as defined in Article is the ability to manage student learning. Teaching and learning process is conducted by the educational interaction of teachers and students in certain situations. Teaching or, more specifically, implementing the teaching-learning process is not an easy task that happens accidentally without a pre-planned, but teaching is an activity that should be planned and designed in such a way as to follow the steps and procedures, and thus its implementation can achieve the expected results.⁸

Good teaching will give the students a very clear respond. There are five steps in teaching and learning related to pedagogic competence, namely:

1. Preparation, students are prepared to accept the lesson. Their interest is moved to accept the new material by plugging in the old material that has been learned before.
2. Presentation, begins in a concrete way for children to receive the responses are clear, bright and strong.
3. Association, is done by integrating new knowledge with the old one.
4. Generalization, a new relationship with the old knowledge that will form too new things in the minds of students. Thus whenever the studies given a new material, it will always form a new knowledge to him.
5. Applications, the formation of new knowledge needs to be examined or tested, to determine whether children are able to apply that knowledge or not.⁹

Teaching is good and right given by the teacher can motivate students to improve academic achievement. Learning achievement is the result which

⁷Sinar Grafika. *Op.Cit.*, page. 9

⁸Syafruddin Nurdin. 2002. *Guru Profesional dan Implementasi Kurikulum*. Jakarta: Ciputat Pers., page. 83

⁹ Made Pidarta. 1997. *Landasan Kependidikan*. Jakarta: PT. Rineka Cipta, page.116



resulted in changes within the individual as a result of learning activities. Outcome or level of ability that has been achieved by students after participating in the learning process within a certain time in the form of changes in behavior, skills or knowledge will be measured and assessed in a number or a statement.

Based on my experience when did the observation in Learning Models in SMA Negeri 2 Kuningan at two years ago there were some teachers who did not meet the pedagogical competence, namely the management of student learning with the several of reason such as: teachers business, absence in the classroom and till the pedagogical competence of teachers have not been fully implemented. In addition, the information obtained from several students of class XI states that they motivated and creative in learning tend to decline so their learning achievement decreases¹⁰.

From the explained above, it is assumed that the pedagogical competence of teachers influence student's achievement. The issue now is whether the influence of teachers' pedagogical competence on student achievement in SMA Negeri 2 Kuningan also applies in both State and private high school in the Kuningan Regency.

Based on the above, the researcher is interested in doing research with the title "The Influence of Teachers' Pedagogical Competence toward The

¹⁰ The result of interview with Biliyanto and Raka, the students of class XI IPA SMA Negeri 2 Kuningan on 4 Desember 2010 in SMA Negeri 2 Kuningan at 10.00 am.



Students' Achievement in Learning Math at Eleventh Class of Senior High School in Kuningan Regency".

B. The Identification of the Problem

Based on the background of the problem has been described previously, can be identified as follows:

1. Is there an influence of teachers' competence toward the students' achievement in learning math?
2. Is there an influence of principal leadership toward teachers' pedagogical competence?
3. Is there an influence on school facilities toward teachers' pedagogical competence?
4. Are there any influence environmental on the community around the school toward teachers' pedagogical competence?
5. Is there influences a family environmental toward the students' achievement in learning math?
6. Are there any influences learning media toward the students' achievement in learning math?
7. Is there an influence of the principal policy towards learning mathematics student achievement?
8. Is there an influence of teachers' performance toward the students' achievement in learning math?
9. Is there an influence of teachers' pedagogical competence toward the students' achievement in learning math?

10. If there is influence, how far is the influence of teachers' pedagogical competence toward the students' achievement in learning math?

And there are many questions that will arise regarding the teachers' pedagogical competence toward the students' achievement in learning math.

C. The Limitation of the Problem

To avoid misunderstanding in the matter to be discussed, the author gives limitation on the influence of teachers' pedagogical competence toward the students' achievement in learning math at eleventh class of senior high school in Kuningan Regency.

D. The Questions of the Research

1. How well is teachers' pedagogical competence in the students' achievement in learning math?
2. How far is the students' achievement in learning math?
3. How far is the influence of teachers' pedagogical competence toward the students' achievement in learning math?

E. The Aims of the Research

Starting from the restrictions and the formulation of the problem, the researchers do purpose of this study are:

1. To find out how well of teachers' pedagogical competence in the students' achievement in learning math is.



2. To find out how far the students' achievement in learning math is.
3. To find out how far the influence of teachers' pedagogical competence toward the students' achievement in learning math is.

F. The Usefulness of the Research

The usefulness of this study was to:

1. Theoretical
 - To add to the depth of knowledge as a form of participation of researchers in developing mathematics.
2. Practical
 - a. The results of this study can be used as guidelines to improve the pedagogical competence of teachers, especially teachers who teach mathematics.
 - b. The results can increase achievement of students studying mathematics.



1. Dilarang mengutip sebagian atau seluruh karya tulis ini tanpa mencantumkan dan menyebutkan sumber :
- a. Pengutipan hanya untuk kepentingan pendidikan, penelitian, penulisan karya ilmiah, penyusunan laporan, penulisan kritik atau tinjauan suatu masalah.
- b. Pengutipan tidak merugikan kepentingan yang wajar dari Perpustakaan IAIN Syekh Nurjati Cirebon.
2. Dilarang mengumumkan atau memperbanyak karya ilmiah ini dalam bentuk apapun tanpa seizin Perpustakaan IAIN Syekh Nurjati Cirebon.

BIBLIOGRAPHY

- Arifin, Zaenal. 2009. *Evaluasi Pembelajaran*. Bandung: Remaja Rosdakarya.
- Arikunto, Suharsimi. 2006. *Prosedur Penelitian Suatu Pendekatan Praktek*. Jakarta: Rineka Cipta.
- Ariyoso. <http://statistik4life.blogspot.com/2009/12/uji-mann-whitney-u.html>.
Download: Monday, 16 July 2012 at 8:28 am.
- Asmani, Jamal Ma'mur. 2011. *Tuntunan Lengkap Metodologi Praktis Penelitian Pendidikan Buku Panduan Super Praktis Penelitian Pendidikan Modern Terkini*. Yogyakarta: Diva Press.
- Darajat, Zakiah. 2000. *Kepribadian Guru*. Jakarta: Bulan Bintang.
- Dinas Pendidikan Pemuda dan Olahraga Kabupaten Kuningan, May 2011
- Djamarah, Syaiful Bahri. 2000. *Strategi Mengajar*. Jakarta: PT. Rineka Cipta.
- Fokusmedia. 2009. *Undang-Undang SISDIKNAS Sistem Pendidikan Nasional*. Bandung.
- Geni, Wisang. <http://mahera.net/2011/01/arti-pengertian-definisi-prestasi-belajar/>
Download: Wednesday, 15 February 2012 at 03:24 pm.
- Harlina, Elis. 2010. *Perbandingan Hasil Belajar Siswa antara yang Menggunakan Media Flow Chart (bagan arus) dengan yang Tidak Menggunakan Media Flow Chart (bagan arus) pada Pembelajaran Matematika Pokok Bahasan Kesebangunan dan Kekongruenan (Penelitian Eksperimen pada Siswa kelas IX MTs Nurul Huda Timbang Kabupaten Kuningan)*. Thesis. Not Published. Cirebon: IAIN Syekh Nurjati Cirebon.
- Heryani, Fitri. 2004. *Hubungan Kompetensi Guru dengan Proses Pembelajaran Matematika di SMP Negeri 2 Kuningan*. Thesis. Not Published. Cirebon: STAIN Cirebon.
- Nasehuddien, Toto Syatori. 2003. *Keberhasian Belajar Matematika Siswa Kelas II Madrasah Tsanawiyah se Kecamatan Cilandak Kotamadya Jakarta Selatan dilihat dari Motivasi Berprestasi dan Latar Belakang Sosial Orangnya*. Thesis. Not Published. Jakarta: Universitas Muhammadiyah Prof. Dr. HAMKA.



1. Dilarang mengutip sebagian atau seluruh karya tulis ini tanpa mencantumkan dan menyebutkan sumber :
 - a. Pengutipan hanya untuk kepentingan pendidikan, penelitian, penulisan karya ilmiah, penyusunan laporan, penulisan kritik atau tinjauan suatu masalah.
 - b. Pengutipan tidak merugikan kepentingan yang wajar dari Perpustakaan IAIN Syekh Nurjati Cirebon.
2. Dilarang mengumumkannya atau memperbanyak karya ilmiah ini dalam bentuk apapun tanpa seizin Perpustakaan IAIN Syekh Nurjati Cirebon.

- Nasehuddien, Toto Syatori. 2011. *Metodologi Penelitian*. Cirebon: Nurjati Press.
- NN. www.nhowitzer.Multiply.com. Download: Sunday, 17 Juny 2012 at 01:40 pm.
- NN.<http://carapedia.com/pengertian definisi belajar menurut para ahli info499.html>. Download: Sunday, 17 Juny 2012 at 01:36 pm.
- NN.<http://www.bloggermajalangka.com/2011/09/kompetensi-guru-menurut-uu-no-142005.html> Download: Friday, 10 February 2012 at 00:33 pm.
- Nuramaliah. 2011. *Pengaruh Kompetensi Guru terhadap Berfikir kreatif dalam Bidang Matematika Siswa SMP Negeri 2 Gebang Kabupaten Cirebon*. Thesis. Not Published. Cirebon: IAIN Syekh Nurjati Cirebon.
- Nurdin, Syafruddin. 2002. *Guru Profesional dan Implementasi Kurikulum*. Jakarta: Ciputat Pers.
- Pidarta, Made. 1997. *Landasan Kependidikan*. Jakarta: PT. Rineka Cipta.
- Riduwan. 2008. *Dasar-Dasar Statistik*. Bandung: Alfabeta.
- Sadullah, Uyoh. www.rezaervani.comhttp://groups.yahoo.com/group/rezaervani. Download: Wednesday, 15 February 2012 at 03:03 pm.
- Sagala, Syaiful. 2009. *Kemampuan Profesional Guru dan Tenaga kependidikan*. Bandung: Alfabeta.
- Samani, Mukhlas. 2008. *KTSP Pembelajaran Berbasis Kompetensi dan Kontekstual, Panduan Bagi Guru, Kepala Sekolah, dan Pengawas Sekolah*. Jakarta: Bumi Aksara.
- Sanjaya, Wina. 2008. *Kurikulum dan Pembelajaran*. Jakarta: Prenamedia.
- Sarwono, Sarlito Wirawan. 2000. *Pengantar Umum Psikologi*. Jakarta: Bulan Bintang.
- Saudagar, Fachruddin dan Ali Idrus. 2009. *Pengembangan Profesionalitas Guru*. Jakarta: Gaung Persada.
- Sinar Grafika. 2009. *Undang-Undang Republik Indonesia Nomor 14 Tahun 2005 tentang Guru dan Dosen*. Jakarta.
- Sleger, Sidney. 2000. *Statistika Nonparametrik untuk Ilmu-ilmu Sosial*. Jakarta: Gramedia Pustaka Utama.



1. Dilarang mengutip sebagian atau seluruh karya tulis ini tanpa mencantumkan dan menyebutkan sumber :
 - a. Pengutipan hanya untuk kepentingan pendidikan, penelitian, penulisan karya ilmiah, penyusunan laporan, penulisan kritik atau tinjauan suatu masalah.
 - b. Pengutipan tidak merugikan kepentingan yang wajar dari Perpustakaan IAIN Syekh Nurjati Cirebon.
2. Dilarang mengumumkan atau memperbanyak karya ilmiah ini dalam bentuk apapun tanpa seijin Perpustakaan IAIN Syekh Nurjati Cirebon.

- Sudijono, Anas. 2009. *Pengantar Evaluasi Pendidikan*. Jakarta: Raja Grafindo Persada.
- Sudjana. 2001. *Teknik Analisis Regresi dan Korelasi Bagi Para Peneliti*. Bandung: Tarsito.
- Sudjana. 2005. *Metoda Statistika*. Bandung: Tarsito.
- Sugiyono. 2008. *Metode Penelitian Pendidikan Pendekatan Kuantitatif, Kualitatif dan R & D*. Bandung: Alfabeta.
- Sugiyono. 2009. *Statistika untuk Penelitian*. Bandung: Alfabeta.
- Sujanto, Bedjo. 2007. *Guru Indonesia dan Perubahan Kurikulum*. Jakarta: Sagung Seto.
- Sumarno, Alim. 2011. <http://elearning.unesa.ac.id/myblog/alim-sumarno/pengaruh-kompetensi-pedagogik-guru-dan-tingkat-modernitas-siswa-terhadap-pengetahuan-dasar-ekonomi> Download: Monday, 19 March 2012 at 09.30 am.
- Syah, Muhibbin. 1997. *Psikologi Pendidikan dengan Pendekatan Baru*. Bandung: PT. Remaja Rodakarya.
- Uno, Hamzah B.. 2008. *Profesi Kependidikan*. Jakarta: Bumi Aksara.
- Usman, Purnomo Husaini. 2007. *Pengantar Statistik*. Jakarta: Bumi Aksara.
- W.J.S. Poerwadarminta. 1976. *Kamus Umum Bahasa Indonesia*. Jakarta: Balai Pustaka.
- Winarsunu, Tulus. 2009. *Statistik dalam Penelitian Psikologi Pendidikan*. Malang: UMM Press.