

## ABSTRAK

Ariningsih, Fransisca Siwi, 2010. *Analisis Langkah-Langkah Pembelajaran menurut Standar Proses Pembelajaran Materi Peluang di SMA Kanisius Tirtomoyo*. Skripsi. Program Studi Pendidikan Matematika, Fakultas Keguruan Dan Ilmu Pendidikan, Universitas Sanata Dharma, Yogyakarta.

Penelitian ini bertujuan untuk mendeskripsikan langkah-langkah pelaksanaan pembelajaran matematika mengenai materi peluang dan sejauh mana prinsip-prinsip pembelajaran menurut Standar Proses untuk Satuan pendidikan Dasar dan Menengah diterapkan dalam pembelajaran matematika mengenai peluang di kelas XI SMA Kanisius Tirtomoyo.

Metode penelitian yang digunakan adalah metode kualitatif deskriptif dengan tujuan mengungkapkan fenomena-fenomena dalam keadaan yang sebenarnya. Data yang dikumpulkan bersifat kualitatif yang berkaitan dengan langkah-langkah pembelajaran yang dilakukan oleh guru selama proses pembelajaran berlangsung. Subjek penelitian adalah satu orang guru matematika di SMA Kanisius Tirtomoyo dan siswa siswi kelas XI IPA SMA Kanisius Tirtomoyo. Penelitian ini dilaksanakan pada kelas XI IPA SMA Kanisius Tirtomoyo selama lima kali pertemuan yang dimulai pada tanggal 29 September 2009 sampai tanggal 15 Oktober 2009. Pengumpulan data diperoleh dengan merekam kegiatan pembelajaran menggunakan *handy-cam* dan mencatat kegiatan pembelajaran pada lembar observasi. Data-data yang dihasilkan dianalisis melalui proses analisis data yaitu: (i) Transkripsi, (ii) Penentuan topik-topik data, (iii) Penentuan kategori data, dan (iv) Penarikan kesimpulan.

Hasil penelitian ini berupa langkah-langkah pembelajaran matematika materi peluang dan sejauh mana penerapan prinsip-prinsip standar proses pembelajaran di SMA Kanisius Tirtomoyo. Langkah-langkah pembelajaran matematika materi peluang diuraikan dalam setiap pertemuan yaitu pertemuan pertama: (i) Subjek guru mengenalkan materi mengenai konsep peluang, (ii) Subjek guru memberikan tugas percobaan, ruang sampel, dan titik sampel, (iii) Subjek guru menjelaskan mengenai pelemparan sebuah dadu. Pertemuan kedua: (i) Subjek guru mengulang materi pada pertemuan sebelumnya, (ii) Subjek guru membahas mengenai pelemparan dua buah dadu, (iii) Subjek guru melanjutkan materi berikutnya tentang kisaran nilai peluang. Pertemuan ketiga: (i) Subjek guru mengenalkan materi mengenai konsep frekuensi harapan, (ii) Subjek guru membahas mengenai peluang operasi kejadian, (iii) Subjek guru menyampaikan kegiatan pada pertemuan mendatang. Pertemuan keempat: (i) Subjek guru membahas mengenai materi sebelumnya, (ii) Subjek guru membahas mengenai frekuensi relatif, (iii) Subjek guru membahas mengenai materi peluang kejadian saling bebas. Pertemuan kelima: (i) Subjek guru menyiapkan subjek siswa secara psikis, (ii) Subjek guru memberikan soal ulangan, (iii) Subjek guru mengumpulkan hasil ulangan. Prinsip-prinsip pembelajaran yang telah diterapkan menurut standar proses pembelajaran yaitu: (i) Pelaksanaan pembelajaran didahului dengan kegiatan pendahuluan, (ii) Pelaksanaan kegiatan inti pembelajaran meliputi eksplorasi, elaborasi, dan konfirmasi, (iii) Subjek

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memfasilitasi peserta didik untuk memperoleh pengalaman, (iv) Pelaksanaan pembelajaran diakhiri dengan kegiatan penutup.



## ABSTRACT

Ariningsih, Fransisca Siwi, 2010. *The Analysis of Learning Steps Based on The Standard of Learning Process on Probability Material in Canisius Tirtomoyo High School*. A thesis. Education of Mathematics department, Education faculty, Sanata Dharma University, Yogyakarta.

This study is aimed to describe the implementation of math learning steps of probability material and how far the learning principles based on the process standard for elementary education and intermediate unit are applied on math learning concern to the probability material in students of eleventh grade in Canisius Tirtomoyo high school. The methodology of the study was descriptive qualitative method which was aimed to reveal the phenomena in the real condition.

The data which were collected are qualitative which related to the learning steps that were done by the teacher during the learning process were enforced. The object of the study is a math teacher in Canisius Tirtomoyo High School and the eleventh grade science students of Canisius Tirtomoyo high school. The study were done for 5 times meeting to the eleventh grade science students of Kanisius Tirtomoyo high school which were started on September 29, 2009 to October 15, 2009. The data were obtained by recording the learning activities using the handycam and making notes from the learning activities in observation paper. The data of the result were analysed through the data analysis processes which are: (i) Transcription, (ii) determining the topics of the data, (iii) determining the category of the data, and (iv) drawing the conclusion.

The result of the study is in the forms of the math learning steps in probability material and how far the implementation of standard principles of learning process in Canisius Tirtomoyo High School. The steps of math learning in probability material are outlined in each meetings, the first meeting are: (i) The object which is the teacher was introduced the concept of probability, (ii) The teacher as the object gave the task in experiment, sample spaces and sample point, (iii) The object explained about the dice throwing. The second meeting: (i) the teacher repeated the previous material, (ii) The object discussed about the throwing of two dices, (iii) The teacher as the object continued to the next materials about the range of probability's value. The third meeting: (i) The object which is the teacher introduced the material about the concept of frequency of expectation; (ii) The object discussed about the probability of the event operation, (iii) The object delivered the activity that will be done in the next meeting. The fourth meeting: (i) The object discussed the previous materials, (ii) The teacher discussed about the relative frequency, (iii) The teacher discussed about the material of free probability event. The fifth meeting: (i) The teacher prepared the student psychologically, (ii) The teacher gave the test, (iii) The teacher collected the result of the test. The learning principles that were applied based on the learning process standard which is: (i) The learning realization is started with introduction activity, (ii) The enforcement of learning main activity covering the exploration, elaboration and confirmation, (iii) The teacher as the subject gave the

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facilities to the students to gain experiences, (iv) The learning enforcement ended with closing activity.

