

ABSTRAK

Maria Rettian Anggita Sari. 101414053. 2015. *Aktivitas dan Hasil Belajar Siswa dalam Pembelajaran Matematika dengan Pendekatan Ilmiah di Kelas XI MIA 4 SMA Negeri 10 Yogyakarta Tahun Ajaran 2014/2015*. Skripsi. Program Studi Pendidikan Matematika, Jurusan Pendidikan matematika dan Ilmu Pengetahuan Alam, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Sanata Dharma, Yogyakarta.

Penelitian ini bertujuan untuk mengetahui aktivitas dan hasil belajar siswa selama diterapkannya pendekatan ilmiah pada pembelajaran matematika pada siswa kelas XI MIA 4 SMA Negeri 10 Yogyakarta tahun ajaran 2014/2015.

Penelitian ini termasuk penelitian deskriptif kuantitatif. Penelitian ini dilakukan pada tanggal 13 September 2014 sampai 11 Oktober 2014. Penelitian ini dilaksanakan pada semester gasal tahun ajaran 2014/2015 dengan materi komposisi fungsi. Subjek dari penelitian ini adalah siswa kelas XI MIA 4 SMA Negeri 10 Yogyakarta yang berjumlah 32 siswa. Penelitian ini dilakukan dalam 4 kali pertemuan. Instrumen pengumpul data terdiri atas (1) lembar observasi keterlaksanaan pembelajaran, (2) lembar observasi aktivitas siswa oleh pengamat, (3) lembar observasi aktivitas siswa oleh teman sebangku, (4) soal tes hasil belajar, (5) lembar observasi penilaian sikap spiritual, dan (6) lembar observasi penilaian sikap sosial.

Hasil penelitian menunjukkan bahwa (1) Siswa cukup aktif dalam mengikuti pembelajaran, dimana secara keseluruhan rata-rata jumlah siswa yang melakukan aktivitas mengamati adalah 95,88% dengan kriteria sangat tinggi, aktivitas menaya adalah 54,64% dengan kriteria cukup, aktivitas mengumpulkan informasi/ mencoba adalah 9,44% dengan kriteria sangat rendah, aktivitas mengasosiasi/ mengolah informasi/ menalar adalah 72,66% dengan kriteria tinggi, dan aktivitas mengkomunikasikan adalah 53,55% dengan kriteria cukup; (2) Hasil belajar siswa ditinjau dari tes hasil belajar yaitu nilai pengetahuan dan keterampilan adalah baik dengan nilai rata-rata 3,19 dan 25 siswa mencapai kriteria ketuntasan dengan prosentase 83,67%; (3) Hasil belajar siswa ditinjau dari sikap spiritual dan sikap sosial adalah baik dengan 27 siswa yang mencapai kriteria ketuntasan dengan prosentase 90%.

Kata kunci : Pendekatan ilmiah, aktivitas belajar siswa, hasil belajar siswa.

ABSTRACT

Maria Rettian Anggita Sari. 101414053. 2015. Activities and Students' Learning Outcomes in Mathematics Learning using Scientific Approach of Class XI MIA 4 of SMA Negeri 10 Yogyakarta in the Academic Year of 2014/2015. Undergraduate Thesis. Mathematics Education Study Program, Department of Mathematics and Science Education, Faculty of Teachers Training and Education, Sanata Dharma University, Yogyakarta.

This research was aimed to know the activities and students' learning outcomes during the implementation of the scientific approach in mathematics learning in class XI MIA 4 of SMA Negeri 10 Yogyakarta in the academic year of 2014/2015.

This research was a descriptive quantitative research. The field research has been done from September 13, 2014 until October 11, 2014. This research was conducted in the odd-numbered semester in the academic year of 2014/2015, using the topic of composition of functions. The subjects of this research were the students in class XI MIA 4 of SMA Negeri 10 Yogyakarta consisting of 32 students. The research in the classroom was done in four meetings. The data collecting instruments consist of (1) lesson observation sheet, (2) observation of student activity sheet by observers, (3) observation of student activity sheet by friend on the same bench, (4) test on learning achievement, (5) observation sheet for evaluating the social attitudes, and (6) observation sheet for evaluating the spiritual attitudes.

The results of this research showed that (1) the students were quite active in the scientific approach which was used in the lesson, where the overall average number of students who undertook observing activity was 95.88% being in the "very high" criteria, questioning activity was done by 54.65% of students being in the "sufficient" criteria, collecting information activity/ experimenting activity was done by 9.44% of students being in the "very low" criteria, associating activity was done by 72.66% of students being in the "high" criteria, and communicating activity was done by 53.55% being in the "sufficient" criteria, (2) students' measure of learning outcomes in terms of achievement test that evaluated the knowledge and skills was good, with an average score of 3.19 and 25 students achieving mastery criteria with a percentage of 83.7%, (3) students' measure of learning outcomes in terms of spiritual attitudes and social attitudes was good, with 27 students achieving mastery criteria with a percentage of 90%.

Keywords : Scientific approach, students' learning activities, students' learning outcomes