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TEACHING STATEMENT

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My teaching experience comprehends the years 2010–2016 and 2020–2022. In the period from January 2017 to May 2019, I held two postdoctoral positions which did not require teaching duties. Nevertheless, during this period I gave some lectures in seminars of algebra to professors and graduate students. My teaching began in August 2010 as *teaching assistant* at Facultad de Ciencias, Universidad Nacional Autónoma de México (UNAM). One year later I became an *Instructor* in the same faculty. I was a teaching assistant in nine courses at bachelor level and one course at master level. As instructor, I have given thirteen courses at bachelor level and two to graduate students. The subjects of all these courses were different algebra topics, such as linear algebra, groups, rings and modules.

Since my first classes as a teaching assistant I found a fascination for sharing my knowledge with the students and that helped me to give my best every class. As teaching assistant, my duties were to solve exercises and answer questions of the students regarding the syllabus given by the professor. I always try to solve the problems with the students instead of just giving them the answers. In mathematics, I believe that, most part of the understanding of a problem resides more in the process to get the answer than in the answer itself. Some times I encourage the students to participate in front of the group and solve some exercise in the blackboard. I think, this can make the student more confident.

As instructor my duties were to give the syllabus, design the exams and grading them. For my classes, I try to find more than one textbook to base on. The idea of this is not just to make a copy of a textbook in the blackboard. Looking at different textbooks helps to improve the presentation in the class because the authors can explain the same concepts in different ways. At the beginning of each syllabus I like to give a short review of the last class in order to refresh the memory of the students. Also, when a new subject is coming, I always try to start with an example to make it easier for the students to understand the new concepts. Before an exam, I leave a list of exercises and I design the exam using similar questions. Usually a course comprehends 16 weeks and I apply an exam every 4 weeks. I consider that as a part of my job as instructor is to be available as much as possible to try to answer the student's queries. I encourage my students to participate in class asking questions and also I assign office hours where they can ask me their questions regarding the class.

Teaching mathematics and, in my particular case, teaching algebra can be a little difficult. Algebra most of the time is just manipulate expressions through operations and this can be hard for the students. I always try to find the best explanation and the easiest examples for the students to understand. I endeavor to make each student understand the concepts before we get new ones. I also try to

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share my passion for the mathematics and the algebra in particular, hoping that they can enjoy it as I do.