

## Curriculum Vitae

**Name:** Ibrahim Al-Rasasi (Alrasasi)

**Rank:** Assistant Professor

**Department:** Department of Mathematics and Statistics, KFUPM

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### **Education:**

1. BS in Mathematics from King Fahd University of Petroleum and Minerals in 1992.
2. MS in Mathematics from King Fahd University of Petroleum and Minerals in 1995.
3. Ph.D. in Mathematics from Temple University, Philadelphia, PA, USA, in August 2001.

### **Employment:**

- Assistant Professor: 2001-
- Lecturer: 1996- 2001
- Graduate Assistant: 1993-1995.

**Major Field:** Number Theory

**Area of Specialization:** Algebraic Number Theory

### **Research Interest:**

1.  $p$ -adic Analysis.
2. Diophantine Equations.
3. Problems in Classical Number Theory.

### **Teaching Experience:**

- Teaching period: 1993-1996 and September 2001- present in KFUPM.
- Course Coordination: Acted as a coordinator for Math 101 and Math 102 for several semesters.
- Courses Taught:
  - Math 001, Math 002 (Preparatory Mathematics I, II)
  - Math 101, Math 102, Math 201 (Calculus I, II, III)
  - Math 202 (Elements of Differential Equations)
  - Math 232 (Introduction to Sets and Structures)
  - Math 455 (Number Theory)
- Textbooks used for Teaching:

- Anton, Howard, Calculus: A New Horizon, 6<sup>th</sup> edition, John Wiley & Sons, New York, 1999.
- Anton, H., Bivens, I., Davis, S., Calculus: Early Transcendentals, 7<sup>th</sup> edition, John Wiley & Sons, New York, 2002.
- Stewart, James, Calculus: Early Transcendentals, 5<sup>th</sup> edition, Thomson-Brooks/Cole, USA, 2003.
- Stewart, James, Calculus: Early Transcendentals, 6<sup>th</sup> edition, Thomson-Brooks/Cole, USA, 2008.
- Zill, Dennis G., A First Course in Differential Equations, 7<sup>th</sup> edition, Brooks/Cole, USA, 2001.
- O'Leary, Michael L., The Structure of Proof, Prentice Hall, New Jersey, 2002.
- Gallian, Joseph A., Contemporary Abstract Algebra, 6<sup>th</sup> edition, Houghton Mifflin, Boston, 2006.
- Niven, I., Zuckerman, H. S., Motgomery, H. L., An Introduction to the Theory of Numbers, 5<sup>th</sup> edition, John Wiley & Sons, New York, 1991.

### **Funded Research Projects**

1. Integer-Valued Polynomials and Bhargava Rings, Junior Faculty Grant, JF-2005/02, July 1, 2005- May 31, 2006. (Completed)
2. Problems in Number Theory, Arabic Book Writing Grant, AR100003, February 1, 2010- November 30, 2010. (In progress)

### **Publications:**

1. Alrasasi, I. and Izelgue, L., On the Prime Ideal Structure of Bhargava Rings, Comm. in Algebra, 38 (4) 2010, 1385-1400.
2. "Bhargava Rings over Subsets", Submitted.

### **Conference/Meetings Attendance:**

1. The Sixth Meeting of Saudi Association for Mathematical Sciences. April 9-10, 2002, King Saud University, Riyadh, Saudi Arabia.
2. The Seventh Meeting of Saudi Association for Mathematical Sciences. April 7-8, 2004, Prince Sultan University, Riyadh, Saudi Arabia.
3. The Second Annual Conference for Middle East Teachers of Science, Mathematics, and Computing, March 14-16, 2006, Abu Dhabi, UAE.

### **Research Visits:**

- Cadi Ayyadh University, Marrakech, Morocco; June 20- July 21, 2007. Host: Professor L. Izelgue.

### **Scientific Societies:**

- A Member in the American Mathematical Society (AMS).
- A Member in the Mathematical Association of America (MAA).

**Committees:** (Departmental Committees)

1. 2001-2002. Undergraduate Committee.
2. 2002-2003. Calculus Committee.
3. 2003-2004. Calculus Committee.
4. 2004-2005. Program Self-Assessment Committee.
5. 2005-2006. IT-in-Teaching Committee.
6. 2006-2007.
  - i. Teaching Committee.
  - ii. Calculus Coordination Committee.
  - iii. Executive Committee of the 2<sup>nd</sup> KFUPM Math Olympiad
  - iv. College of Sciences Grant Committee.
7. 2007-2008
  - i. Executive Committee of the 3<sup>rd</sup> KFUPM Math Olympiad
  - ii. Math Program Assessment Committee.
8. 2008-2009
  - i. Executive Committee of the 4<sup>th</sup> KFUPM Math Olympiad
  - ii. Assessment Committee
9. 2009-2010
  - i. Resources and Training Committee of the 5<sup>th</sup> KFUPM Math Olympiad
  - ii. Calculus Textbook Selection Committee
  - iii. Undergraduate Committee
  - iv. Coordination Committee
  - v. The Current Situation of Recitation Class (ad hoc)
  - vi. Textbook Selection Committee for Math 460 (ad hoc)