

University of Notre Dame Department of Mathematics  
**MATHEMATICS TEACHING SEMINAR**

**Santosh Kendal and Nicole Kroeger**

University of Notre Dame

*Will give two lectures entitled:*

**"The Mean Value Theorem"  
&  
"The Dot Product"**

Tuesday, March 22, 2011

***At***

5:00 PM

***In***

231 Hayes-Healy Hall

***Abstracts***

Santosh Kendal will present *The Mean Value Theorem*.

Abstract: I will discuss the Mean Value Theorem, its graphical meaning and a few applications. I will assume that subject materials up to the Rolle's Theorem are covered in the past lectures.

Nicole Kroeger will present *The Dot Product*.

Abstract: In  $RR^2$  and  $RR^3$ , we understand the notions of length and right angles. This talk will discuss how we extend these ideas to  $RR^n$  using the dot product.