

DISCRETE MATHEMATICS SEMINAR
Department of Mathematics
University of West Georgia
4 PM, MONDAY, OCTOBER 31, 2005, BOYD 330

Speaker: Dr. Abdollah Khodkar

Title: **Domination in Graphs**

Abstract

A vertex v in a graph G is said to **dominate** all the vertices in its closed neighborhood $N[v]$. A subset S of $V(G)$, the vertex set of G , is a **dominating set** if every vertex in $V(G) \setminus S$ is adjacent to a vertex in S . The **domination number** $\gamma(G)$ is the minimum cardinality among the dominating sets of G . A subset S of $V(G)$ is a **total dominating set** if every vertex in $V(G)$ is adjacent to a vertex in S . The **total domination number** $\gamma_t(G)$ is the minimum cardinality among the total dominating sets of G . In this talk I will present a brief overview of dominating sets and domination numbers in graphs.

All are welcome.