

# INGE 5020

**Course Title** INTRODUCTION TO CERAMIC MATERIALS

**Course Description** Introduction to the fundamental principles of ceramic materials including their crystalline structure, electronic and ionic defects and subsequent transport phenomena, microstructure, mechanical properties, processing and diverse modern applications. Study of related topics such as glass formation and applications of nanostructured ceramic materials.

**Credit Hours** 3

**Course Options** Exchange..... No  
Special Topic..... No  
Type.....Normal  
Offering Semester..... Always  
Students can take this course multiple times.....No

**Grading Schema** Passing Grade D

**Requisites** INGE 4001 OR INGE 3045 OR INME 4107 or authorization of the Director of the Department

Course Syllabus