NUET 4950 NUCLEAR PLANT SYSTEMS

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Course Description

Design and analysis of nuclear power plant normal operation and emergency response from a system point of view. Emphasis on cooling systems for the reactor and spent fuel, normal and emergency power supply, spectrum of Design Basis Accidents.

Prerequisites: MEET 3940, MEET 3990, NUET 3910

Course Objectives

By the end of the course, the students will be able to:

- Understand and predict the behavior of plant systems during normal and emergency conditions
- Understand the spectrum of Design Basis Accidents and engineered responses
- Understand the interactions of various cooling systems
- Understand concepts related to nuclear heat generation and removal, reactor safety
- Understand concepts pertaining to spent fuel cooling

Required text


Grading Criteria

Homework Assignments 20%
Participation 10%
Quizzes 10%
Midterm Exam #1 20%
Midterm Exam #2 20%
Final Exam 20%

Grade Distribution

≥ 90% = A
80 – 89.99% = B
70 – 79.99% = C
60 – 69.99% = D
< 60% = F

Disabilities Accommodation:
The University of North Texas complies with Section 504 of the 1973 Rehabilitation Act and with the Americans with Disabilities Act of 1990. The University of North Texas provides academic adjustments and auxiliary aids to individuals with disabilities, as defined under the law. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring accommodation, please see the instructor and/or contact the Office of Disability Accommodation at 940-565-4323 during the first week of class.