Purdue University School of Nuclear Engineering NUCL 300 – Nuclear Structure and Radiation Interactions

| Instructor: | Prof. Rusi Taleyarkhan WANG 4090; 765-313-1876; Email: rusi@purdue.edu | |
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| Grader(tent.): | Jacob Minnette; Tel:812-746-0296; Email: jminnett@purdue.edu | |
| Schedule: | Lectures (M-W-Fri; 10:30am – 11:20am; GRIS 103) https://purdue.webex.com/join/rusi Office Hours - (Wed: 4:30pm to 5:30 pm) | |
| Prerequisites: Course Objectives: | NUCL200 or permission from instructor This course will acquaint students with the field of atomic/nuclear structure and photon/charge particle interactions with matter including concepts of radioactivity, and shielding. Practical engineering applications& skill-sets will be emphasized. | |
| Texts/Handouts: | by: 1) Knoll; 2) Jevremovic; 3) Lamarsh/Baratta; 4) Glasstone- Sesonske; 5)Mayo; 6) Tsoufinalidas, and Taleyarkhan et al. – See Course Syllabus /Topics List for Details (provided separately). | |
| Grading: | Mid-Term Exam: 25% Final-Exam: Project: 15% A+,A-: B+,B, B-: C+,C,C-: D, E, F, I | 25% 35% 85+; 81-85 77-80; 74-76; 71-73 67-70; 64-66; 61-63 as warranted 5% (instructor discretionary) |
| Notes: | Late HW submissions: 20%/day reduction or prior approval from instructor; DRC arrangements are responsibility of students. Exams will cover material mainly from the in-class lectures, home works /handouts/quizzes. Attendance Policy (Lectures, Exams, Project). Project work will include your team presentations (mandatory attendance) in class. You are responsible for all material covered in the lectures. The best way to earn a high grade for this course is to attend lectures, take good notes, do your homework/quizzes and communicate with graders in timely manner (esp. for clarifying course grade issues) and the Professor (for concepts covered in class and to resolve situations with grades – if not with the grader/TA). Purdue's student honor code will be enforced as required. | |

** In case of a major campus emergency, course requirements, deadlines and grading percentages are subject to changes that may be necessitated by a revised semester calendar or other circumstances. You will be informed promptly via email or text alerts. Purdue's home-page for updates on emergencies, & emergency preparedness (shelter in place; fire-evacuation). In case of sickness or excused absence submit a physician's certificate or a letter from the Dean of Students, or obtain prior approval from the instructor for accomodations.**