

## Chemical Engineering Laboratory II

ChE496

3 credits

Pre-requisite Courses: ChE 349, 360, 380, 396, Chem 339, Math 225A

Co-requisite Courses: ChE 460, 489

Tuesdays-Thursdays, 1 pm – 4 pm. Tiernan Hall: Labs B7, 206, 311

### **Instructor: Dr. Irina Molodetsky**

Room 350 Tiernan Hall

Office hours: Monday, 1:00 pm-2:30pm; Wednesday: 3:00pm-5:00 pm

Please, contact by email for additional meeting

Email: [Irina.Molodetsky@njit.edu](mailto:Irina.Molodetsky@njit.edu)

### **TA: Siva Valluri**

Email: [sv476@njit.edu](mailto:sv476@njit.edu)

### **Course overview**

- Laboratory experiments are completed in teams.
- Each team will conduct four experiments. Each contributes 25% to your total grade.
- Each experiment requires Pre-Experiment Plan (10%) and Risk Assessment (10 %)
  - Three laboratory experiments require a written report (70%) in the format of a scholarly paper, that includes sample calculations (5%, “Appendix”), and Quiz (5%) at the review session.
  - One laboratory experiment will be presented to your peers (team presentation; ppt format, 75%)
- The laboratory experiments include modeling and prediction components. Completion of these components requires a math software package (for example, Polymath, which is available on all ChE computers).
- This course will use the NJIT Moodle site accessed by <http://moodle.njit.edu> for all communications regarding changes in the schedule, status of the experiments, score rubrics, files and documents.
- The manuals for laboratory experiments are uploaded to Moodle site.
  - These manuals reflect a sustaining, multiyear effort of Prof.R.Barat to develop an experimental course for chemical engineers. This course gives you unique opportunities to apply knowledge you gained from the theoretical courses to real-life open-ended problems.

## **Professional behavior**

- You are expected to follow the laboratory safety standards.
  - General guidelines are discussed at length in the Lab Manual – Introduction.
  - Every laboratory experiment includes specific safety guidelines.
  - Every team will be required to complete a risks assessment prior to running a specific laboratory experiment.
- Participation of each member of the team is critical and will be evaluated by the team members, as well as by the instructor. These evaluations will affect the final grade.

## **Policy on Academic Integrity**

Members of the NJIT community are expected to be honest and forthright in their academic endeavors as stated in the academic integrity code:

[www.njit.edu/academics/pdf/academic-integrity-code.pdf](http://www.njit.edu/academics/pdf/academic-integrity-code.pdf)

## **Accommodations due to a disability**

If you need accommodations due to a disability please contact Chantonette Lyles, Associate Director of Disability Support Services, Fenster Hall Room 260 to discuss your specific needs. A Letter of Accommodation Eligibility from the Disability Support Services office authorizing your accommodations will be required.