

## **B. Instructor Information Sheet**

### **1. General Information:**

Instructor: Dr. Lionel R. Orama Exclusa, PE  
Title: Professor  
Office: S-702  
Phone: 832-4040 ext. 5833  
Office Hours: M-T 1:45 – 4:00am

\* If you have a conflict with my office hours, we will make special appointments \*

E-mail / URL: [lionel.orama@upr.edu](mailto:lionel.orama@upr.edu), <http://www.ece.uprm.edu/~lorama/>

### **2. Course Description:**

Course Number: INEL 4103  
Course Title: Power System Fundamentals  
Course Textbook: J. D. Glover & M. Sarma, Power System Analysis and Design, 4<sup>th</sup> Ed., International Thompson Pub., 2008.

### **3. Purpose:**

This course presents fundamental concepts of power transformers and transmission lines. This is a three credit-hours course, open to Junior Electrical Engineering students. After completing the course, students will have a sound background on the analysis of electric power systems. They will define and describe the basic components of a power system (source, feeders, transformers and loads). Students must identify three phase circuit configurations including transformer connections. They will apply three phase concepts to everyday life situations and equipment. Students will be able to solve problems involving power transformers and transmission lines.

### **4. Course Goals:**

*Presentar los métodos de análisis para problemas de potencia monofásica y trifásica. Estudiar, con cierta profundidad, algunos fenómenos físicos relacionados a la interacción entre el sistema y sus componentes.*

### **5. Requirements:**

All students are expected to:  
Think. Individually do all assigned homework, and work in teams on class projects. Arrive on time.  
Attend all lectures, and approve quizzes.

### **6. Laboratory/Computer Usage:**

There is no laboratory for this course.

Students are required to turn in a homework using PowerWorld software.

### **7. Instructional Strategy:**

The course will consist of lectures, discussions and problem solving. When homework is assigned it will be due a week later. Homework will be discussed in class. There will be online classes during the semester.

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### **8. Evaluation/Grade Reporting:**

There will be quizzes (70%) and a final project (30%). None of the quizzes will be eliminated. There will be no repositions.

- Grading scale: 100-88 A, 87-78 B, 77-68 C, 67-64 D, 63 or less F
- Academic fraud will result in discipline procedure with the university Discipline Board
- Final grade will be affected at a rate of 1% for every two absences, and every two late entrances will be one absence.

### **9. Deadlines for Assignments:**

Not yet assign.

### **10. Student Assistance:**

N/A

### **11. Attendance and Behavior:**

Attendance is mandatory and you will behave.

The only electronic equipment you are allowed to bring to class is your calculator, a hearing aid, pacemaker or other health aid you may need. Cellular phones and pagers are not to be used in class.

### **12. Instructor Responsibilities:**

The instructor will grade all evaluation tools within two weeks, will keep regular office hours and attempt to answer all questions.