ELECTRICAL AND COMPUTER ENGINEERING DEPARTMENT CLEMSON UNIVERSITY

ECE 9910 - DOCTORAL DISSERTATION RESEARCH

INSTRUCTOR: Dr. G. Kumar Venayagamoorthy

Duke Energy Distinguished Professor of Electrical and Computer Engineering.

Riggs 303D Tel. 864 656-5936 gvenaya@clemson.edu

SEMESTER: SP 2020

SEMINAR TIME: Friday, 9.30 am to 12.00 pm (As per schedule, mostly weekly)

CLASSROOM: Riggs 303A (seminars) and RTPIS Lab (demos)

OFFICE HOURS: By appointment only (you are encouraged to email me to get regular

appointments).

RESPONSE TIME: Instructor response time is two business days for questions emailed. This

response time excludes weekends and official university closures. Should you need live assistance, my office hours are available or email me to arrange a

phone consultation.

REQUIRED TEXT: To be completed and emailed by Friday, January 24, 2020.

REFERENCES: To be completed and emailed by Friday, January 24, 2020.

COURSE OBJECTIVES: The objectives of this course to carry out a thorough research investigation

towards a PhD dissertation as approved by the advisor(s).

COURSE DESCRIPTION: This course will emphasize on the application of previous knowledge of the

student and new knowledge to solve a problem(s) leading to a publication(s) (at minimum reputed journal paper). Exact details of the course will be determined jointly by the student and the instructor during the first two weeks of the course.

COURSE DETAILS: To be finalized and emailed by Friday, January 31, 2020.

First draft due and to be emailed by Friday, January 24, 2020.

PRE-REQUISITES: The basic requirement is a senior undergraduate standing with MATLAB and

other programming language capabilities, Microsoft Office skills (word,

presentation and spreadsheet) and creation of PDF documents.

GRADING: i) Weekly Progress Reports & Papers (see below more on this): 70%

1) Weekly Plogless Reports & Papers (see below more on this). 70%

ii) Meeting Deadlines (see below more on this) 30%

ECE 9910: PASS – 90%; Fail < 90%; Incomplete: Any one of i) or ii) not met.

All disputes about an evaluation of any graded work during the semester must be submitted in writing (typed, not handwritten) within one week after a graded

submission has been distributed to students. Any grade challenges must provide specific justifications for why the grade would be changed.

ATTENDANCE:

Regular meeting attendance and participation in discussions is expected with attendance taken as iROAR requires entry of student's last date of class attendance. Students are responsible for all material covered and assigned readings and tasks during the semester. If you anticipate not being able to attend a class/meeting for a particular reason, please e-mail me with the information (before the appointment is to be missed). The optimal learning experience depends on both a professional teaching environment and student participation.

SEMINAR PARTICIPATION: Seminar participation is critical to the learning process. The optimal learning experience depends on active participation. Discussions are critical to learning and everyone in the group is expected to contribute.

MEETING DEADLINES: Plan ahead for the unexpected! You are accountable for staying on schedule should technological or other problems arise. You should immediately contact the instructor if an emergency may affect your ability to meet course deadlines. Do not fall behind. Playing catch-up causes stress, and stress hinders learning.

FINAL REPORT:

The template for the final paper will be the IEEE PES paper format consisting of the following items:

- Title
- Abstract
- Introduction and motivation to the project topic with references (use the IEEE bibliography format)
- Concept/Methodology
- Description of concept in implementation (flowcharts, algorithms and/or programs)
- Discussions on the findings and/or results
- Summary (including future work).

Page length: No limit.

SUBMISSION DATES:

- Weekly reports due on Thursdays by 11:59 pm. No request will be sent for weekly. It is your task to turn it in. No report is due March 21st, 2019.
- First weekly report due: Thursday, January 30th, 2020
- Last weekly report due: Thursday, April 23rd, 2020
- Final report with codes due: Thursday, April 30th, 2020 or sooner.

ACADEMIC INTEGRITY:

The following is Clemson's official statement on academic integrity:

"As members of the Clemson University community, we have inherited Thomas Green Clemson's vision of this institution as a 'high seminary of learning.' Fundamental to this vision is a mutual commitment to truthfulness, honor, and responsibility, without which we cannot earn the trust and respect of others. Furthermore, we recognize that academic dishonesty detracts from the value of a Clemson degree. Therefore, we shall not tolerate lying, cheating, or stealing in any form. In instances where academic standards may have been compromised, Clemson University has a responsibility to respond appropriately and expeditiously to charges of violations of academic integrity."

Further information on Academic Integrity can be found in the <u>Undergraduate Announcements</u> and in the <u>Graduate School Policy Handbook</u>.

Each student should read this policy annually to be apprised of this critical information.

ACCESS ACCOMMODATIONS

Clemson University values the diversity of our student body as a strength and a critical component of our dynamic community. Students with disabilities or temporary injuries/conditions may require accommodations due to barriers in the structure of facilities, course design, technology used for curricular purposes, or other campus resources. Students who experience a barrier to full access to this class should let the professor know, and make an appointment to meet with a staff member in Student Accessibility Services as soon as possible. You can make an appointment by calling 864-656-6848, by emailing studentaccess@lists.clemson.edu, or by visiting Suite 239 in the Academic Success Center building. Appointments are strongly encouraged - drop-ins will be seen if possible, but there could be a significant wait due to scheduled appointments. Students who receive Academic Access Letters are strongly encouraged to request, obtain and present these to their professors as early in the semester as possible so that accommodations can be made in a timely manner. It is the student's responsibility to process each semester. You can access further information follow this here: https://www.clemson.edu/academics/studentaccess/index.html.

ANTI-HARASSMENT AND NON-DISCRIMINATION

Clemson University is committed to a policy of equal opportunity for all persons and does not discriminate on the basis of race, color, religion, sex, sexual orientation, gender, pregnancy, national origin, age, disability, veteran's status, genetic information or protected activity in employment, educational programs and activities, admissions and financial aid. This includes a prohibition against sexual harassment and sexual violence as mandated by Title IX of the Education Amendments of 1972. This policy is located at http://www.clemson.edu/campus-life/campus-services/access/title-ix/. Ms. Alesia Smith is the Clemson University Title IX Coordinator, and the Executive Director of Equity Compliance. Her office is located at 110 Holtzendorff Hall, 864.656.3181 (voice) or 864.656.0899 (TDD).

COPYRIGHT STATEMENT:

Materials in some of the courses are copyrighted. They are intended for use only by students registered and enrolled in a particular course and only for instructional activities associated with and for the duration of the course. They may not be retained in another medium or disseminated further. They are provided in compliance with the provisions of the Teach Act. Students should be reminded to refer to the Use of Copyrighted Materials and "Fair Use Guidelines" policy in on the Clemson University website for additional information: https://www.clemson.edu/library/.

PREFERRED NAME POLICY: Fostering an environment of inclusion is one of the major goals of Clemson University's new strategic plan, ClemsonForward. Some of the most important elements of inclusion are the ways we interact with one another every day. To help foster interactions that support this goal, Clemson has approved a "Preferred Name Policy". Simply put, it is now Clemson's official policy that we all, as members of the Clemson Family, address one another using preferred names (i.e.,

the name an individual prefers to use even if different from his or her legal name). I therefore request you inform me of your preferred name if different than what I have in my records.

FINAL CONSIDERATIONS:

Learning:

At the end of the day it is how much you have learned from this course that matters. You are advised to be active course participant so that you will receive feedback to assist you with your learning and maximize your throughput.

Changes:

Any portion of this syllabus may be changed during the semester by the instructor as needed. You will be notified as soon as possible.

Agreement:

If you disagree with any of the policies or procedures stated above or cannot accommodate the time and work requirements of the course, you need to drop the course as soon as possible. By continuing, you agree to comply with all the policies and procedures described in the course syllabus.

EMERGENCY PROCEDURES:

Emergency procedures have been posted in all buildings and on all elevators. Students should review these procedures for their own safety. Students are required to monitor their university email (see https://www.clemson.edu/studentaffairs/student-handbook/universitypolicies/email-communications.html) thus establishing this as a convenient method for official communication to students. Students are also encouraged to enroll in CU-Safe alerts. See https://www.clemson.edu/cusafety for more information.

Last Updated January 17, 2020