ECE 8380 Reflector Antennas  
COURSE OUTLINE -- Fall 2014

COURSE CONTENT:
- Introduction to Reflector Antennas
- Review of Geometrical Optics and Physical Optics
- Aperture Distribution Method
- Reflector Gain Factor
- Efficiencies
- Phase Errors
- Antenna Noise Temperature
- Primary Feed Design for Shallow and Deep Reflectors
- Forward and Backward Radiating Feeds

CONTACT HOURS:
- Fridays, 9 a.m. to noon from September 12 to Dec. 19
- Room: E1-550 from

EVALUATION (Tentative):
Your final course grade is determined by your performance in assignments, term test, and a final examination. The weighting of each of these components is as follows:

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<th>COMPONENT</th>
<th>NO</th>
<th>VALUE %</th>
<th>TOTAL VALUE</th>
<th>DETAILS / ADDITIONAL INFO</th>
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<td>Seminar Reports</td>
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<td>Summaries</td>
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<td>Homework/Assignments</td>
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<td>Final Examination</td>
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TEXTBOOK:
- Microwave Horns & Feeds, Peter Peregrinus (IEE), 1994
- Antenna Theory, Analysis & Design, C. A. Balanis, 3rd Ed. John Wiley & Son, 2005
INSTRUCTOR INFO:

Name       Drs. Lot Shafai and Zahra (Maria) Allahgholi Pour
Office:    E3-404C EITC
Email:   Zahra.AllahgholiPour@umanitoba.ca

Office Hours:

VOLUNTARY WITHDRAW:

Wednesday, Nov. 12, 2014

REQUIREMENTS/REGULATIONS

• Student Responsibilities: It is the responsibility of each student to contact the instructor if he/she is uncertain about his/her standing in the course and about his or her potential for receiving a failing grade. Students should also familiarize themselves with Sections 4 and 6 of the Regulations dealing with incomplete term work, deferred examinations, and attendance and withdrawal.
  o Lectures: Attendance at lectures is essential for successful completion of this course. Students must satisfy each evaluation component in the course.

ACADEMIC INTEGRITY:

Students are expected to conduct themselves in accordance with the highest ethical standards of the Profession of Engineering and evince academic integrity in all their pursuits and activities at the university. As such, in accordance with the General Academic Regulations and Requirements of the University of Manitoba, Section 7.1, students are reminded that plagiarism* or any other form of cheating is subject to serious academic penalty (e.g. suspension or expulsion from the faculty or university) regardless of media

  o examinations
  o assignments
  o laboratory reports
  o term exams

A student found guilty of contributing to cheating in examinations or term assignments is also subject to serious academic penalty

*Plagiarism: to steal and pass off (the ideas or words of another) as one's own; use (another's production) without crediting the source