

## EE351

## Distributed Parameter Systems

Spring 2006

**Location:**

**Lectures:** SLOAN 7 MWF @ 8:10 a.m ,

**Credits:**

3

**Instructor:**

Dr. Mohamed Osman

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Phone: 335-2301

e-mail: [osman@eecs.wsu.edu](mailto:osman@eecs.wsu.edu), [ee351\\_EM2@yahoo.com](mailto:ee351_EM2@yahoo.com)

Office hours : MW: 9:00 –10:00, Tuesday: 11:00 – 12:00 or by appointment

Web: <http://www.eecs.wsu.edu/~osman/EE351/>

**Teaching Assistant:**

Name: Ray Rydberg

Office hours: MW 10:00 – 11:00 a.m.

Office: EME B37

Phone: 335-6978

e-mail: [rrydberg@eecs.wsu.edu](mailto:rrydberg@eecs.wsu.edu)

**Help session:**

**Text Book:**

1. B. Guru and H. Hiziroglu, “*Electromagnetic Field Theory Fundamentals*,” Cambridge University Press, (2004). (Required) -----  
[available at the bookie after 01/12.](#)

**Grading:**

Homework	12%
Pop Quizzes	3%
Three midterm exams.	60%
Final [Mandatory & Comprehensive]	25%
Total	100%

**Exam. Policies:** The following restrictions will apply to all exams.

1. Closed notes and books.
2. No Crib sheets
3. No headphones, cell phones, or pagers. *A ringing cell phone will result in 10% reduction in exam. grade.*
4. No hats
5. No guests or visitors during exams.
6. Make-up exams will be given only if the instructor provides verbal approval before the regular exam is administered. Leaving the instructor voice messages or sending e-mails do not constitute approval for make-up exam. It is very important that you make note of this policy.
7. Any discussion of the graded exams. will be done at a later time in my office provided you return your exam. Please do not place any additional notations or marks on the exam. To avoid such event, you will be asked to clear your desks when exams are returned. This procedure for returning the exams is considered an integral part of administering the exam. Consistent with other instructors, I reserve the right to reduce an exam score if it becomes apparent during your office visit that too much partial credit was given on the student’s exam.
8. Cheating in any form will result in automatic failure of the course and further actions by the School of EECS and WSU.

**Homework Policies:**

*“No late homework accepted”*

Homework assignments are designed to prepare you for the exams and applying the concepts discussed in lectures. Turn in your own work for homework assignments. Do not copy your colleague’s homework solutions. The TA will be instructed to give students zero points for any problem that has been copied (regardless of “who did the work”). This policy is not meant to discourage studying together, but to ensure that the homework score provides a measure of the effort the student expends on the homework assignment.

Homework sets will be graded on a “points” system with increased number of points allotted to more challenging material (such as numerical methods.) While solving numerical methods homework problems, you must write computer programs in C, Fortran, or **Matlab**.

**Grade Cuts:**

The only grade cuts are that students receiving a course average less than 50% will probably receive an F for the course and those students receiving less than 60% will probably receive C- for the course. Course grades will be assigned by considering the histogram of course averages and looking for “natural” cuts where there is a clear difference between “groups” of students.

Reasonable accommodations are available for students who have a documented disability. Please notify instructor during the first week of class of any accommodations needed for the course. Late notifications may not guarantee the accommodations due to unavailability. All accommodations must be approved through the Disability Resource Center in Administration Annex room 205, 335-1566, e-mail: [drc@mail.wsu.edu](mailto:drc@mail.wsu.edu) in Pullman.

Week	Date	Lecture	Topic	Exams.	Chapter
1	01/09	1	Plane waves: Maxwell's Equations & Wave equation		
	01/11	2	Plane waves		
	01/13	3	Plane waves		
2	01/16		No Classes (Martin Luther King's Day)		
	01/18	4	Plane waves		
	01/20	5	Plane waves		
3	01/23	6	Plane waves		
	01/25	7	Planes waves		
	01/27	8	Waves guides		
4	01/30	9	Waves guides		
	02/01	10	Waves guides		
	02/03	11	Waves guides		
5	2/06	12	Waves guides		
	2/08	13	Waves guides		
	2/10	14	Waves guides		
6	2/13	15	Waves guides		
	2/15	16	Plane waves & Waveguides	<b>Exam 1</b>	
	2/17	17	Antennas		
7	2/20		No Classes (President's Day )		
	2/22	18	Antennas		
	2/24	19	Antennas		
8	2/27	20	Antennas		
	3/01	21	Antennas		
	3/03	22	Antennas		
9	3/6	23	Antennas		
	3/08	24	Antennas		
	3/10	25	Antennas		
10	3/13				
	3/15		No Classes (Spring Break)		
	3/17				
11	3/20	26	Antennas		
	3/22	27	Antennas	<b>Exam 2</b>	
	3/24	28	Modern Topics		
13	3/27	29	Modern Topics		
	3/29	30	Modern Topics		
	3/31	31	Numerical methods		
14	4/03	32	Numerical Methods		
	4/05	33	Numerical Methods		
	4/07	34	Numerical Methods		
15	4/10	35	Numerical methods		
	4/12	36	Numerical methods		
	4/14	37	Numerical methods		
16	4/17	38	Numerical Methods		
	4/19	39	<b>Modern Topics &amp; Numerical Methods</b>	<b>Exam 3</b>	
	4/21	40	Numerical Methods		
16	4/24	41	Numerical Methods		
	4/26	42	Review		
	4/28	43	Review		
17	5/02		<i>Final Exam ( 7:00 – 9:00 p.m)</i>		ALL

## Final Exam. Schedule for Spring 2006

**NO EARLY EXAMINATIONS. Final Examinations will not be rescheduled for the purpose of leaving the institution before the close of the semester (per academic rule 80).**

Times	Days				
	Monday, May 1	Tuesday, May 2	Wednesday, May 3	Thursday, May 4	Friday, May 5
7:00–10:00 AM or 8:00–10:00 AM	4 Daily 4 M, W, F 3:50–5 M, W 4:15–5:30 M, W	9 Daily 9 M, W, F 9:10-10:25 M, W	2 Daily 2 M, W, F	Chem 101, 102, 105, 106 2 Tu, Th	10 Daily 10 M, W, F
10:10 –1:00 PM or 10:10 –12:10 PM	10 Tu, Th 11 Tu, Th 10:35-11:50 Tu, Th	2:50–4:05 Tu, Th 3 Tu, Th	9:10–10:25 Tu, Th 9 Tu, Th	7:45–9 Tu, Th 8 Tu, Th	Math 172, 202
1:00–3:00 PM	1:25–2:40 Tu, Th 1 Tu, Th	Math 201, 220	Acctg 230, 231 Fin 425 Evening lecture M, W, F*	12 Daily 12 M, W, F 12:00–1:15 M, W	B Law 210 Mktg 360
3:10–5:10 PM or 3:10–6:10 PM	3 Daily 3 M, W, F 2:50–4:05 M, W	4:15–5:30 Tu, Th 4 Tu, Th	Math 107, 171	11 Daily 11 M, W, F 10:35–11:50 M, W	1 Daily 1 M, W, F 1:25–2:40 M, W
7:00–9:00 PM or 7:00–10:00 PM	Cpt S 121 Evening lecture Tu,Th*	8 Daily 8 M, W, F 7:45–9 M, W	Span 101, 102, 203,304	12:00–1:15 Tu, Th 12 Tu, Th	Biol 101, 102, 106, 107

**NOTE:**

- M,W,F evening lecture courses begin after 5:00 PM; Tu,Th evening lecture courses begin after 5:30 PM.
- Saturday, May 6, 2006 is reserved for special examinations