

MATH 443.01

Partial Differential Equations

Fall 2015-16

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Assistant(s) : None

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Course web page : <http://www.fen.bilkent.edu.tr/~mugan/courses/math443/math443.htm>

Text Books : **Main Textbooks:**

R. Dennemeyer
Introduction to Partial Differential Equations and Boundary V. Problems
 (McGraw-Hill, 1968)
 I. Sneddon
Elements of P.D.E., (McGraw-Hill, 1985)

Supplementary Textbook:

P.R. Garabedian
Partial Differential Equations, (Chesea Publicating, 1986)

Exams : Quizes, Homeworks and Attendance (25 %) **(NO MAKE-UP FOR QUIZES)**
 Midterm Exam # 1 (35 %), **Date: November 12, 2015, Thursday, Time:18:00-20:00,**
Place: To Be Announced
 Final Exam (40 %), **To be announced**

75 % ATTENDANCE IS OBLIGATORY

No FZ Grade, everybody may take the final exam

Week	Subject	Exams
1. September 7	Surfaces and Curves in 3-dimension Sept. 9, Classes Start	
2. September 14	Orthogonal Trajectories and Sys. of Curves on a Surface	
3. September 21	Pfaffian Differential Equation Sept. 23-27, Holiday	
4. September 28	Solving Pfaffian equation in 3 dim.	
5. October 5	First order PDE in two independent variables,	
6. October 12	Charecteristic curves	
7. October 19	Nonlinear PDE of first order	
8. October 26	PDE with constant coeffiients October 28,29, No Classes	
9. November 2	Second order PDE	
10. Noevmber 9	Second order linear PDE with variable coeff. In two varb.	Midterm Exam
11. November 16	2nd order lin.PDE w/ var. coeff. in 2 var. Nov. 16,17, No Classes	
12. November 23	Sturm-Liouville Problem	
13. November 30	Seperation of Variable in Laplace's Equation	
14. December 7	Seperation of Variable in Laplace's Equation	
15. December 14	Heat equation, Wave Equation	
16. December 21	Review December 24, Classes End	