

TITLE	Elliptic Partial Differential Equations
LECTURER	Reza Seyyedali School of Mathematics, IPM
TIME	Fall 2020, Sundays and Tuesdays, 16:00-18:00 First lecture on November 24.
VENUE	Online, through Google Meet. To get the access link send an email to the lecturer or gt@ipm.ir

SUMMARY

The course will cover basic material on elliptic PDEs including: Harmonic functions, maximum principle, weak solutions and Sobolev spaces, elliptic regularity. If time permits, I will go over DeGiorgi-Nash-Moser Theorem and some examples of nonlinear PDEs.

References:

- 1) L. C. Evans, Partial Differential Equations
- 2) D. Gilbarg, N. Trudinger, Elliptic Partial Differential Equations of Second Order