

# ISTANBUL TECHNICAL UNIVERSITY

Physics Eng. Department

**GENERAL RELATIVITY (FIZ 494E)**

Spring 2020

[CRN 20311]

## COURSE INFORMATION

**INSTRUCTOR:** Assoc.Prof. A.Savaş ARAPOĞLU;

Faculty of Arts and Letters, B4-121; +90-212-285 7220; arapoglu@itu.edu.tr.

**TIME:** Mon, 14:30-17:20, D202.

**COURSE WEB PAGE:** NINOVA...

**OFFICE HOURS:** Wed. 16:00-17:00.

## COURSE CONTENT

1. Special Relativity
2. Gravity as Geometry
3. Description of Curved Spacetime
4. Schwarzschild Solution
5. Solar System Tests of GR
6. Black Holes
7. Gravitational Waves (if we have enough time)

## TEXTBOOK

- **J. B. Hartle**, *Gravity*, Addison Wesley (2003).

## GRADING

HWs	% 30	7+
Midterm	% 30	TBA
Final	% 40	

**Final Exam Condition:** You have to take at least **15/60 of the total grade** from hw+mt.