

# Dark Energy and Alternative theories

by: Sohrab Rahvar

Sharif University of Technology

Saturday and Monday (10:00-12:00)

1. Standard Model of Cosmology (2-session)
2. Dark matter and dark energy (1+1 session)
3. Cosmological constant and Quintessence models (2 session)
4. Modified Newtonian Dynamics MOND (2 session)
5. Modified gravity in the galactic scales ( 1 session)
6.  $f(R)$  gravity (3 session)
7.  $f(R_{\mu\nu}R^{\mu\nu}, R_{\mu\nu\alpha\beta}R^{\mu\nu\alpha\beta})$  Gravity (2 session)
8. DGP ( 1 session)
9. Spherical solution in Palatini and metric formalism (2 session)
10. Cosmology of  $f(R)$  gravity (2 session)