



Board of Teacher Education
Physics

Course Reading

Physics III and Physics Education

Valid from 08/31/2020

Course Code: FYGL31

Course Title: Physics III and Physics Education

Credits: 30 ETCS cr

Degree Level: Undergraduate level

1. Thermodynamics and Statistical Physics

Books

Cengel, Yunus A & Boles, Michael A. *Thermodynamics, an engineering approach*. McGraw-Hill

Misc.

Beckman, Olof, Grimvall, Göran, Kjällerström, Bengt, & Sundström, Tage, *Energilära*

2.

Books

Susskind, Leonard; Friedman, Art. (2015). *Quantum Mechanics: The Theoretical Minimum*. London, UK: Penguin Books

Reference material

Tipler, Paul A.; Llewellyn, Ralph A. (2012). *Modern physics* (6 uppl.). New York: W.H. Freeman

3.

Books

Lundgren, U. P., Pramling Samuelsson, I., Säljö, R., Börlin, A., Richardson, G., Bryttling, T., Hülphers, O. (2008). *Lärarens handbok: läroplaner, skollag, diskrimineringslag, yrkesetiska principer, FN:s barnkonvention*. Lund: Studentlitteratur AB

4. Experimental physics

Misc.

Bransden B H & Joachain C J, Quantum Mechanics

Myers, H P, Introductory Solid State Physics

Owens, Frank & Poole, Charles, The Physics and Chemistry of Nanosolids

Laboratory instructions

Approved by the Board of Board of Teacher Education 06/24/2020