

# Inženirstvo materialov UNI

## 2. Letnik - obvezni predmeti

### Prenos toplote in snovi

- HERR, H. Nauka o toploti. Ljubljana: Tehniška založba Slovenije, 1997.
- INCROPERA, F.P. in DeWITT, D.P. Fundamentals of Heat and Mass Transfer. New York: John Wiley & Sons, 1990.
- LINDON, C.T. Heat Transfer. New Jersey: Prentice-Hall, 1992.
- HOLMAN, J.P. Heat Transfer. New York: McGraw-Hill, 1986.
- KAVIANY, M. Principles of Heat Transfer. New York: John Wiley & Sons, 2002.
- KAMINSKI, D.A. in JENSEN, M.K. Introduction to Thermal and Fluid Engineering. New York: Wiley International Edition, 2005.
- PITTIS, D.T. in SISSOM, L.E. 1000 Solved Problems in Heat Transfer. New York: McGraw-Hill, 1991.
- MASSOUD, M. Engineering Thermofluids: Thermodynamics, Fluid Mechanics and Heat Transfers. Berlin / Heidelberg: Springer Verlag, 2005.
- TURNS, R.S. Thermal – Fluid Sciences. New York: Cambridge University Press, 2006.

### Fizikalna metalurgija 1

- S. SPAIĆ: Fizikalna metalurgija: binarni sistemi, metalografija zlitin, Ljubljana 2000.
- B. Markoli: Ternarni in kvaterni zlitinski sistemi, Ljubljana 2009.
- B. MARKOLI: Osnove fizikalne metalurgije, Ljubljana 2008.
- V. MARINKOVIČ: Fizikalna metalurgija II, skripta, Ljubljana 1999.
- PORTER, EASTERLING: Phase Transformations in Metals and Alloys, Chapman – Hall 1992.
- VERHOEVEN: Fundamentals of Physical Metallurgy, John Wiley, New York
- C.KITTEL, Introduction to solid state physics, John Wiley & Sons 2005.
- A.PRINCE: Alloy phase equilibria, Elsevier publishing company, Amsterdam-London-New York 1966
- R.J.D.TILLEY: Understanding Solids, Wiley&Sons, Chichester 2004.

### Matematika 3

- Vidav: Višja Matematika I DMFA-založništvo, Ljubljana, 1994.
- Vidav: Višja Matematika II, DZS, Ljubljana, 1981.
- F. Križanič: Parcialne diferencialne enačbe, DMFA-založništvo, Ljubljana, 2004.
- L. C. Evans: Partial Differential Equations, AMS, Providence, 1998.

### Mehanika materialov

- Rodič, T. Nelinearna mehanika materialov, Naravoslovnotehniška fakulteta, 2010.
- Lubliner, J. Plasticity Theory, New York, Macmillian Publishing Co., 1990.
- Hosford W.F., Mechanical Behaviour of Materials, Cambridge University Press, 2005.

### Termodinamika materialov 1

- V. Gontarev. Termodinamika, učbenik, Univerza v Ljubljani, NTF, Ljubljana, 2005.
- D. R. Gaskell, D. E. Laughlin. Introduction to the Thermodynamics of Materials, Taylor & Francis Group, 2018.
- M. Vončina. Termodinamika materialov: računski primeri z rešitvami. Ljubljana: Naravoslovno-tehniška fakulteta, Oddelek za materiale in metalurgijo, 2020.
- R. DeHoff. Thermodynamics in Materials Science, Second Edition, CRC Press, Taylor & Francis Group, 2006.
- S. R. Turns. Thermodynamics, Cambridge University Press, Cambridge, 2006.

### Termodinamski praktikum

- Laboratorijski praktikum: TERMODINAMIKA IN KINETIKA MATERIALOV

### Numerično modeliranje

- O.C. ZIENKIEWICZ and R.L. TAYLOR, (2000) The Finite Element Method, Vol. 1: The Basis, Butterworth and Heneimann, 5th Edition, 689 pp.
- O.C. ZIENKIEWICZ and R.L. TAYLOR, (2000) The Finite Element Method, Vol. 2: Solid Mechanics, Butterworth and Heneimann, 5th Edition, 459 pp.
- J.N. Reddy, D.K. Garting: The Finite Element Method in Heat Transfer and Fluid Dynamics (3th ed.) CRC Press Taylor & Francis, Boca Raton, London, New York, 2010.

### Proizvodni sistemi v trdnem

- R. Turk, G. Kugler, M. Terčelj, D. Bombač: Preoblikovanje kovinskih materialov, UL-NTF, OMM, 2008 (elektronska in tiskana verzija)
- J.G. Lenard, M. Pietrzyk, L.Cser, Mathematical and Physical Simulation of the Properties of Hot Rolled Products; 1999.
- E.Doege, B.A. Behrens, Handbuch Umformtechnik; 2007.
- K.F. Karhausen, Integrierte Process- und Gefügesimulation bei der Warmumformung; 1994.
- F.J. Humphreys, M. Hatherly, Recrystallization and related annealing phenomena, 2004.
- G.E. Totten, K.Funatani, L. Xie, Handbook of Metallurgical process design; 2004.
- B. Verlinden, J. Driver, I. Samajdar, R. D. Doherty, Thermomechanical Processing of Metallic Materials; 2007.

### Preiskava materialov

- Mechanical testing and evaluation, ASM handbook, Volume 8, Materials Park, Ohio, 2000.
- Burkhard H.: Werkstoffprüfung, Fachbuchverlag Leipzig, 2003.
- A. Smolej: Preiskava materialov, Slikovno gradivo predmeta Preiskava materialov za VSŠ Metalurške tehnologije, Ljubljana, 2007.
- Krautkrämer J, Krautkrämer H.: Werkstoffprüfung mit Ultraschall, Springer Verlag, Berlin, 1986.
- Müller E. A.W.: Handbuch der zerstörungsfreien Werkstoffprüfung, R. Oldenbourg Verlag, München, 1999.
- Halmshaw R.: Non-destructive testing, Arnold, London, 1991.

#### Pirometalurgija železa in zlitin

- E.T. Turkdogan: Fundamentals of Steelmaking. The Institute of Materials, Maney Publishing, Leeds, UK (2010).
- F. Oeters: Steelmaking Metallurgy / Metallurgie der Stahlherstellung. Springer-Verlag Berlin, Heidelberg und Verlag Stahleisen, (1989).
- S. Seetharman: Fundamentals of metallurgy. Woodhead Publishing Limited, Cambridge, UK, (2005).

#### Procesi in lивarski praktikum

- MRVAR, P.: Lивarski praktikum, skripta.

## 2. Letnik – izbirni predmet

#### Osnove ekonomske analize

- Prašnikar, J., Domadenik, P., Koman, M.: Mikroekonomija. Ljubljana: Gospodarski vestnik, 2008.
- Domadenik, P., Feldin, A., Gregorič, A., Koman, M.: Mikroekonomija: Zbirka rešenih nalog. Ljubljana: Gospodarski vestnik, 2007.
- Pindyck, R., Rubinfeld, D.: Microeconomics. Prentice Hall, 2012.

#### Projektni manedžment

- Obvezna literatura
  - Rozman, R., Stare, A., 2008. Projektni management ali ravnateljevanje projekta (učbenik). \* Prosojnice predavanj
- Izbirna literatura
  - Stare, A., 2011. Projektni management: teorija in praksa.
  - Andersen, E.S., et.all, 2009, Goal directed project management.
  - Burke, R., 2010, Fundamentals of PM.
  - Coupin, G., et. all, 2006, ICB International Competence Baseline.
  - Harrison, F., Lock, D., 2004, Advanced project management.
  - Kerzner, H., 2009, Project management: a systems approach.
  - Lewis, J.P., 2006, Fundamentals of project management.
  - Lock, D., 2007, Project management.
  - Meredith, J.R., Mantel, S.J., 2009, Project management: a managerial approach.
  - Milošević, D., 2003, Project management toolbox.
  - Pinto, J.K., 2009, Project management.
  - PMI, 2008, A guide to the project management body of knowledge.
  - Turner, J.R., 2009, The Handbook of Project-based Management.
  - Verzuh, E., 2008, The fast forward MBA in project management.
  - Wysocki, R.K., 2009, Effective project management.
  - Young, T.L., 2007, The handbook of project management.
  - Revije: ZPM - Projektna mreža Slovenije, IPMA - International journal of project management.

#### Temelji trženja

- Konečnik Ruzzier, M. (2011): Temelji trženja: Pristop k trženjskemu načinu razmišljanja v 21. stoletju. Ljubljana: Meritum. 253 str. (for course in Slovenian language).
- Kotler, P. & Armstrong, G. (2012). Principles of Marketing- Global Edition. 14th Ed. London, UK: Pearson Prentice Hall (for Course in English language).

**Osnove poslovnih financ**

- Hillier, D., I. Clacher, S. Ross, R. Westerfield, and B. Jordan. Fundamentals of Corporate Finance, Second European Edition, 2014.
- Berk, A., I. Lončarki, in P. Zajc. Poslovne finance: Vodnik po predmetu. 2007.

**Ekonomika poslovanja v montanističnih podjetjih-izbirni**

- F. BIZJAK, Tea PETRIN, Uspešno vodenje podjetja, Zbirka manager, 1996.
- M. TEKAVČIČ, Obvladovanje stroškov, Zbirka manager, 1997.

**Ekonomika okolja**

- Turner, K., Pearce, D.: Environmental Economics. London: Prentice Hall, 2000.
- Kolk, A.: Economics of Environmental Management. London: Prentice Hall, 2000. X, 205 str.
- Nacionalni program varstva okolja.