

**RECOMMENDED TEXTBOOKS AND REFERENCES FOR BIE ELECTIVES  
SEMESTER 2, ACADEMIC YEAR 2008-2009**

**BG4210 ADVANCED BIOINSTRUMENTATION  
(Lee Kijoon)**

**REFERENCES**

1. J.J. Car and J.M. Brown, **Introduction to Biomedical Equipment Technology**, 4<sup>th</sup> Ed. (2001)
  2. P.H. King, R.C. Fries, **Design of Biomedical Devices and Systems** (2002)
  3. R. Aston, **Principles of Biomedical Instrumentation and Measurement** (1990)
  4. J. Moore and G. Zouridakis, **Biomedical Technology and Devices Handbook** (2003)
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**BG4214 BIOMEDICAL OPTICS  
(Julian Chan Chi Chiu)**

**TEXT**

1. Robert Splinter Brett A. Hooper, **An Introduction to Biomedical Optics**, Taylor & Francis, 2006
2. Lukas Novotny, Bert Hecht, **Principle of Nano-Optics**, Cambridge University Press, 2006
3. Lihong V. Wang, Hsin-I Wu, **Biomedical Optics: Principles and Imaging**, Wiley- Interscience, 2007
4. Eugene Hecht, **Optics**, Addison Wesley; 4<sup>th</sup> Edition, 2001

**REFERENCES**

1. Jurgen (edt) Popp, **Biophotonics**, John Wiley & Sons Inc., 2006
  2. Federica Poli, Annamaria Cucinotta, Stefano Selleri, **Photonic Crystal Fibers: Properties and Applications**, Springer, 2007
  3. Maryanne Large, **Microstructured Polymer Optical Fibres**, Springer, 2007
  4. Iam-Choo Khoo, **Liquid Crystals**, Wily-Interscience, 2nd Edition, 2007
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**BG4308 THERAPEUTIC ENGINEERING**  
**(Wang Dongan, Mary Chan)**

**TEXT**

1. B Palsson, SN Bhatia, **Tissue Engineering**, Prentice Hall, 2004

**REFERENCES**

1. B Ratner et al., **Biomaterials Science: An Introduction to Materials in Medicine**, Academic Press, 1996.
  2. WM Saltzman, **Tissue Engineering: Principles for the Design of Replacement Organs and Tissues**, Oxford University Press, 2004
  1. RP Lanzer, R Langer, JP Vacanti, **Principles of Tissue Engineering**, Academic Press, 2000
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**BG4237 FUNDAMENTALS OF GENE THERAPY**  
**(Wang Dongan)**

**TEXT**

- No Texts
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