

## **Topical Problem in Biomedical Engineering**

## **Course Overview**

e newest ethical issues of actual level of with ability to and technical entific papers, short cientific discussion a working, including education and
vill be able to: velopment trends in cordance with trends to solve scientific ion. ng activities.

	ONIVERSITY SHUBEPCUTET
	<ul> <li>Implantable devices, technical and ethical issues</li> </ul>
	Life support systems, technical and ethical issues
	<ul> <li>Cell technologies, genetic manipulation, artificial organisms, technical and ethical issues</li> </ul>
Labs	_
Projects	
Assessment	Credit Test (Pass/Fail)
Resources	Textbooks:  1. Introduction to Professional Communication. Course Book, Work Book.  E.N. Suntzova, E.E. Velichko [2008]. TPU  2. Everyday Technical English. [2003]. Longman  3. Oxford English for Electronics. Course Book. Teacher's Book. [2006]. OUP  4. Computational methods in biophysics, biomaterials, biotechnology and medical systems [Электронный ресурс]: Algorithm Development, Mathematical Analysis, and Diagnostics. — 38 Chapters. — Berlin: Springer US, 2003  5. Biomaterials and Tissue Engineering / edited by D. Shi. — Berlin: Springer Verlag, 2004. — 246 p  6. Professional English in Use ICT. R.Esteras, Elena M. Fabre [2007] OUP  7. Jordan, R. R. English for Academic Purposes: A guide and resource book for teachers / R. R. Jordan. — 7th ed. — Cambridge: Cambridge University Press, 2005. — 404 p.  9. English for Academic Purposes: Teacher's Book / K. Cox, D. Hill. — Frenchs Forest: Pearson Longman, 2004. — 256 p.  Online materials:  1. BENG 100: FRONTIERS OF BIOMEDICAL ENGINEERING, access through http://oyc.yale.edu/biomedical-engineering/beng-100.  2. Introduction to Bioengineering (BE.010J) access through http://ocw.mit.edu/courses/biological-engineering/20-010j-introduction-to-bioengineering-be-010j-spring-2006/videos/
Instructors	Konstantin Brazovskii http://portal.tpu.ru:7777/SHARED/m/MBC