

## Medizinische Fakultät

### Promotionsfach - Biomedizinische Technik

Biomedical engineering, the application of engineering principles to the medical field is a growing interdisciplinary area of the present century. Thanks to increasing life expectancy, its potential is by far above average. In Switzerland, medical technology is a particularly well-established and well-embedded industry sector driving the international standards. Swiss companies are among the global players in key business areas such as dental implants and hearing aids. Small- to medium-sized enterprises, which occupy market niches, reap extraordinary rewards. Therefore, an increasing demand for well-educated and motivated engineers with basic medical knowledge is guaranteed.

Studienfachberatung:

PhD Program Coordinator: \*Dr. Gabriela Oser, Department of Biomedical Engineering\* Mail: [gabriela.oser@unibas.ch](mailto:gabriela.oser@unibas.ch), <http://dbe.unibas.ch>,\* Anmeldung siehe: \* <https://medizin.unibas.ch/de/karriere/doctoral-degrees/phd-dr-sc-med/>

### Doktorat Biomedizinische Technik: Empfehlungen

55664-01	Blockkurs: Hands-on Introduction to Medical Robotics Hardware ( 2 KP )	Mo 09:00-17:00 Hegenheimermattweg 167B, Teaching Laboratory 02.098 Block 2.9.2024 - 6.9.2024, 9:00 - 17:00 Teaching Lab 02.098, Hegenheimermattweg 167b, 4123 Allschwil	Nicolas Gerig Murali Krishna Karnam <b>Georg Rauter</b>
72374-01	Blockkurs: Scientific Writing and Publishing ( 1 KP )		<b>Annegret Mündermann</b>
71047-01	Kurs: Innovation in Cranio-Maxillofacial Surgery – Current Topics and Research ( 1 KP )	Mo 17:00-18:00 wöchentlich Unispital Basel, Klinikum 1, 1. Stock, Bibliothek WHC / MKG-Chirurgie (findet jeden Montag auch während der Semesterferien statt)	Neha Sharma <b>Florian Markus Thieringer</b>
71150-01	Kurs: Klinische Orthopaedie und Traumatologie ( 1 KP )	Mi 08:15-10:00 wöchentlich	Noemi Eberhard <b>Florian Imhoff</b> Nicola Krähenbühl Alexandre Olivier Kämpfen Dirk Maier Arne Mehrkens Mario Morgenstern Marc Andreas Müller Annegret Mündermann Norbert Suhm
71049-01	Seminar: Escape the Box: Deep Learning ( 1 KP )	Mo 11:15-12:00 Hegenheimermattweg 167B, Lecture Hall 02. 097 wöchentlich	<b>Florentin Bieder</b> Philippe Claude Cattin Julia Wolleb
71048-01	Seminar: Navigation, Robotics and Lasers in Surgery ( 1 KP )		<b>Ferda Canbaz</b>
26940-02	Seminar: Regenerative Medicine Journal Club ( 3 KP Jahreskurs )	Do 13:30-14:30 14-täglich ZLF, DBM Seminarraum Hebelstrasse 20, 4031 Basel	<b>Ivan Martin</b>
72304-01	+ Seminar: The Future of Personalized Medicine: 3D Printing and Patient-Specific Technologies ( 1 KP )	Di 11:00-13:00 Biozentrum, Seminarraum U1.191 unregelmässig 11:00 - 13:00 on Monday, Tuesday or Wednesday. Schedules are available on the seminar series web page.	<b>Valentina Basoli</b> Neha Sharma Florian Markus Thieringer
26941-02	Seminar: Tissue Engineering Reports ( 3 KP Jahreskurs )	Di 17:00-18:00 wöchentlich Klinikum I, Raum Knotenpunkt	<b>Ivan Martin</b>



48186-01 Vorlesung: Laser and Optics in Medicine (3 KP)

Fr 10:15-12:00  
Hegenheimermattweg  
167B, Lecture Hall 02.  
097

**Ferda Canbaz**  
Arsham Hamidi

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48882-01 + Vorlesung mit Übungen: Applied control (3 KP)

Mi 08:15-10:00  
Hegenheimermattweg  
167B, Lecture Hall 02.  
097  
wöchentlich

Nicolas Gerig  
Murali Krishna Karnam  
**Georg Rauter**  
Cédric Schicklin

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