### Module title
Biology in Technics and Medicine

### Abbreviation
07-GY-PBBT-092-m01

### Module coordinator
Dean of Studies Biologie (Biology)

### Module offered by
Faculty of Biology

### ECTS
3

### Method of grading
numerical grade

### Only after succ. compl. of module(s)
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### Duration
1 semester

### Module level
undergraduate

### Other prerequisites
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### Contents
Using examples from the fields of biotechnology and pharmaceutical biology, this module will provide teaching degree students with an overview of the applications of biology in technology and medicine. Topics from the area of biotechnology that will be covered include biosensors and environmental biotechnology, microbiotechnology and nanobiotechnology, biomaterials, cryobiotechnology, bioprocess engineering and microbial biotechnology. In the module component on pharmaceutical biology, students will acquire an overview of the study of biogenic drugs. This module component will include an introduction to pharmacokinetics, the discipline that describes the fate of a drug or xenobiotic in an organism. In addition to an insight into pharmacology and the effects of xenobiotics/pollutants, students will thus acquire an overview of industrial processes.

### Intended learning outcomes
Students have become familiar with the fundamental principles of biotechnology and pharmaceutical biology. They recognise the relevance findings in biology have to technological progress and know how drugs act in the body.

### Courses
V + V (no information on SWS (weekly contact hours) and course language available)

### Method of assessment
2 written examinations (30 to 60 minutes each)

### Allocation of places
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### Additional information
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### Referred to in LPO I
(examination regulations for teaching-degree programmes)
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### Module appears in
First state examination for the teaching degree Gymnasium Biology (2009)