



## COURSE DATASHEET

<b>Semester:</b>	2013/14/1
<b>Course:</b>	Chapters from the human biotechnology
<b>Code:</b>	VEMKBMM412H
<b>Responsible department:</b>	Research Institute on Bioengineering, Membrane Technology and Energetics
<b>Department code:</b>	MKBME
<b>Responsible instructor:</b>	Zsófia Eszter Csanádi

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### Course objectives:

Human and medical biotechnology.

### Course content:

"Red" biotechnology-Human and medical biotechnology.

Fermentation of antibiotics.

Medicine production with biotechnology processes.

Role of biotechnology processes in medical diagnostics (kits, tests)

Production of vaccines.

Artificial organs (lungs, liver, blood, etc.)

Molecular biology methods and techniques in human biotechnology.

Role of genetics in human biotechnology.

Human cells-blood stem cells.

Special methods in human biotechnology (bio-toxicology, larval-therapy, etc.)

### Requirements, evaluation and grading:

After a half an hour's preparation the examinee gives an oral presentation on the topic for about 20-25 minutes.

Fail (1) when the examinee is unable to prove either the definition of the basic notions or the short scheme of things connected with the topic.

Pass (2) when the examinee is able to interpret the basic notions of the topic.

Satisfactory (3) when the examinee is well - versed in the basic notions of the topic and is able to present their logic connections - with the help of the examiner.

Good (4) when the examinee provides a logic, well - structured presentation with all the important



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### Requirements, evaluation and grading:

facts and connections but he does not know or partly knows the required reading material connected with the topic.

Very good (5) when the examinee gives a logic, excellent, well-structured, perfect in details oral presentation that completely reveals the connection of the concepts within the topic.

### Required and recommended readings:

S N Jogdand: Medical Biotechnology, Himalaya Library Edition, India, 2008