Medical Microbiology I.
Year/semester: 4th year/1st semester
Lecture: 30 hours - 1 x 2 hours/week
Practice: 10 hours – from 1st to 5th weeks, 1 x 2 hours/week
Seminar: 10 hours – from 6th to 15th weeks, 1 x 1 hour/week

**Topics**

**Week 1.**
Practice: Laboratory safety instructions. Laboratory infections and their prevention. Collection of clinical samples, sample processing.

**Week 2.**

**Week 3.**
Lecture: Host defenses against bacterial infections. Immunological basis of vaccination.

**Week 4.**

**Week 5.**

**Week 6.**
Seminar: Determination of MIC and MBC.
Week 7.
Seminar: Examination of antibiotic interactions.

Week 8.
Seminar: Molecular microbiology. Recombinant pharmaceutical products.

Week 9.
Seminar: Sterile work in practice.

Week 10.
Lecture: Microbial contamination and spoilage of pharmaceutical products. Preservatives. Microbial control of immunological products.
Seminar: Evaluation of sterile work performed on the former seminar.

Week 11.
Lecture: Gram-positive cocci and rods. Acid-fast bacteria.

Week 12.
Seminar: Diagnosis of enteric bacterial infections.

Week 13.
Seminar: Diagnosis of anaerobic infections.

Week 14.
Seminar: Diagnosis of fungal infections. Determination of antifungal susceptibility.

Week 15.
Lecture: Consultation.
Seminar: Consultation.
Requirements:

Participation in the practical courses and seminars is obligatory. The Department may refuse to sign the students’ Lecture book if they are absent from more than two practices or seminars in a semester. Missed practice or seminar may be made up with another group in the same week only.

At the end of 1st semester the student is required to take an end-semester examination (written entry test and oral exam) based on the whole material of the lectures, practices and seminars of the semester. At the end of the 2nd semester the student is required to take a final examination (written entry test and oral exam) based on the whole material taught in the Medical Microbiology course.

Entrance condition (1st semester): pharmaceutical chemistry, complex pathology and immunology.
Entrance condition (2nd semester): medical microbiology I.

Compulsory reading:
L. Gergely: Diagnostic Medical Microbiology, Laboratory Exercises (1989)

Recommended reading:

Debrecen, 05 September 2007

Dr. Krisztina Szarka  Dr. József Kónya
Assistant professor  Associate professor
Academic advisor  Head of Department