

COURSE OUTLINE

(1) GENERAL

SCHOOL	School of Health Sciences		
ACADEMIC UNIT	Faculty of Medicine		
LEVEL OF STUDIES	Undergraduate		
COURSE CODE	IAE905	SEMESTER	10th
COURSE TITLE	Leukemias		
INDEPENDENT TEACHING ACTIVITIES <i>if credits are awarded for separate components of the course, e.g. lectures, laboratory exercises, etc. If the credits are awarded for the whole of the course, give the weekly teaching hours and the total credits</i>	WEEKLY TEACHING HOURS	CREDITS	
Lectures, Demonstration of PCR and flow cytometry, ward rounds, presentation of a scientific/medical article	2	2	
<i>Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).</i>			
COURSE TYPE <i>general background, special background, specialised general knowledge, skills development</i>	Specialised knowledge		
PREREQUISITE COURSES:	No		
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek		
IS THE COURSE OFFERED TO ERASMUS STUDENTS	Yes		
COURSE WEBSITE (URL)	http://course.uoi.gr/course/view.php?id=1113		

(2) LEARNING OUTCOMES

<p>Learning outcomes</p> <p><i>The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.</i></p> <p><i>Consult Appendix A</i></p> <ul style="list-style-type: none"> • <i>Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area</i> • <i>Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B</i> • <i>Guidelines for writing Learning Outcomes</i>
<p>The course offers gaining of knowledge regarding the diagnosis and management of acute and chronic myeloid leukemia, that also includes basic knowledge of applied molecular biology, use of the microscope, transfusion medicine, diagnosis and management of infections in the immunocompromised patient, basic principles of allogeneic transplantation and basic principles of clinical research.</p> <p>The course is taught in combination with clinical and laboratory practice in groups of 3-4 students. At the end of the course the students should be able to recognize the clinical and laboratory presentation of leukemia, to discuss with the patient and the relatives regarding the diagnosis and prognosis of the disease, to perform a bone marrow biopsy, to gain basic experience in molecular techniques, to prescribe a cytotoxic regimen, to know how to search for literature regarding the subject .</p>

General Competences

Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the course aim?

Search for, analysis and synthesis of data and information, with the use of the necessary technology

Adapting to new situations

Decision-making

Working independently

Team work

Working in an international environment

Working in an interdisciplinary environment

Production of new research ideas

Project planning and management

Respect for difference and multiculturalism

Respect for the natural environment

Showing social, professional and ethical responsibility and sensitivity to gender issues

Criticism and self-criticism

Production of free, creative and inductive thinking

.....

Others...

.....

Working independently

Decision-making

Team work

(3) SYLLABUS

Epidemiology and WHO Classification of Leukemias.

Clinical presentation and molecular mechanism of leukemogenesis ,

Breaking bad news, discussing the diagnosis and prognosis.

Diagnosis of leukemia/Blasts: morphology in the peripheral blood and bone marrow smear.

Allogeneic hematopoietic stem cell transplantation: basic principles, indications and procedure.

Treatment options. Application of cytogenetic and molecular analyses: qPCR, minimal residual disease.

Videos of procedures: venipuncture, bone marrow aspirate and biopsy, central catheter.

Clinical and translational research, international research networks. Demonstration of Flow cytometry in acute leukemia sample (group of 3 students), demonstration of biobanking, detection of PML/RARa transcript by PCR (group of 3 students). Demonstration of peripheral blood and bone marrow smear microscopy (8-10 smears from patients with acute or chronic myeloid leukemia).

Participation in a bone marrow biopsy procedure. Participation in the diagnosis and management of a patient with leukemia.

Participation in the prescription and administration of cytotoxic chemotherapy and hypomethylating treatment.

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY <i>Face-to-face, Distance learning, etc.</i>	Face-to-face	
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY <i>Use of ICT in teaching, laboratory education, communication with students</i>	Use of ICT in teaching, laboratory education, communication with students, use of the electronic platform e-course	
TEACHING METHODS <i>The manner and methods of teaching are described in detail. Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.</i> <i>The student's study hours for each learning activity are given as well as the hours of non-directed study according to the principles of the ECTS</i>	Activity	Semester workload
	Lectures	16
	Microscopy of peripheral blood and bone marrow slides	8
	Presentation of a recent scientific paper from the international literature	10
	Clinics	4
	Personal Studying	10
	Course total	50
STUDENT PERFORMANCE		

<p style="text-align: center;">EVALUATION</p> <p><i>Description of the evaluation procedure</i></p> <p><i>Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions, open-ended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical examination of patient, art interpretation, other</i></p> <p><i>Specifically-defined evaluation criteria are given, and if and where they are accessible to students.</i></p>	<p>Oral examination (50 %) comprising of:</p> <ul style="list-style-type: none"> - Evaluation of diagnostic possibilities - Solving problems related to the management of patients with certain types of leukemia . <p>Clinical scenarios.</p> <p>II . Critical presentation of scientific paper related to Leukemias (50 %)</p>
--	--

(5) ATTACHED BIBLIOGRAPHY

<p><i>- Suggested bibliography:</i></p> <p><i>- Related academic journals:</i></p> <p><i>-Essential Haematology, A.V. HOFFBRAND, P.A.H. MOSS, J.E.</i></p> <p><i>-Scientific/Medical Articles from : Blood, Haematologica, NEJM</i></p>
