

UNIVERSITY OF ZAGREB SCHOOL OF MEDICINE

# Plan of the course

# **Nuclear Medicine**

Academic year **2016/2017**

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izv. prof. dr. sc. Mirjana Poropat

## I. COURSE AIMS

Students should acquire essential knowledge of nuclear medicine, principals of fundamental knowledge of radiation and nuclear medicine procedures, radiation protection including internal dosimetry for patients

## II. COURSE STRUCTURE

### Course hours:

Lectures: 12

Seminar: 7

Clinical practicals: 11

**Total hours: 30**

## III. PLAN OF THE COURSE AND COURSE SCHEDULE

### BLOCKS OF THE COURSE

Number of blocks: 1

Block number	Start	End
1.	12.12.2016	16.12.2016

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Number of blocks: 1

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1.	12.12.2016	16.12.2016

### BLOCKS OF THE COURSE SCHEME

Block 1

Date	Time	Group	Course hours type	Theme	Teaching staff
Monday 12.12.2016.	08:00-08:45; KBC, Klinički zavod za nuklearnu medicinu, predavaonica (soba 4)	All	Lectures	Basics of nuclear medicine	izv. prof. dr. sc. Dražen Huić
	08:45-09:30; KBC, Klinički zavod za nuklearnu medicinu, predavaonica (soba 4)	All	Seminar	Physics and instrumentation in nuclear medicine	dr. sc. Sanja Kusačić Kuna

Date	Time	Group	Course hours type	Theme	Teaching staff
	09:45-10:30; KBC, Klinički zavod za nuklearnu medicinu, predavaonica (soba 4)	All	Lectures	Biological effect of radiation and protection	doc. dr. sc. Stanko Težak
	11:00-11:45; KBC, Klinički zavod za nuklearnu medicinu, predavaonica (soba 4)	All	Lectures	Nuclear medicine in nephrourology	izv. prof. dr. sc. Mirjana Poropat
	11:45-12:30; KBC, Klinički zavod za nuklearnu medicinu, predavaonica (soba 4)	All	Clinical practicals	Nuclear medicine in nephrourology	izv. prof. dr. sc. Mirjana Poropat
	12:30-13:15; KBC, Klinički zavod za nuklearnu medicinu, predavaonica (soba 4)	All	Seminar	Nuclear medicine in nephrourology	izv. prof. dr. sc. Mirjana Poropat
Tuesday 13.12.2016.	08:00-08:45; KBSM, Klinika za onkologiju i nuklearnu medicinu	All	Clinical practicals	Physics and instrumentation in nuclear medicine	Marina Prpić, pred.
	08:45-09:30; KBSM, Klinika za onkologiju i nuklearnu medicinu	All	Seminar	Radiopharmaceuticals	doc. dr. sc. Maja Franceschi
	09:45-10:30; KBSM, Klinika za onkologiju i nuklearnu medicinu	All	Lectures	Diagnosis of thyroid diseases	dr. sc. Zvonko Kusić
	10:30-11:15; KBSM, Klinika za onkologiju i nuklearnu medicinu	All	Clinical practicals	Diagnosis of thyroid diseases	dr. sc. Zvonko Kusić
	11:30-12:15; KBSM, Klinika za onkologiju i nuklearnu medicinu	All	Lectures	Nuclear medicine and joint diseases	doc. dr. sc. Maja Franceschi
	12:30-13:15; KBSM, Klinika za onkologiju i nuklearnu medicinu	All	Clinical practicals	Nuclear medicine and joint diseases	Marina Prpić, pred.
Wednesday 14.12.2016.	08:00-08:45; KBC, Klinički zavod za nuklearnu medicinu, predavaonica (soba 4)	All	Clinical practicals	Therapy of thyroid diseases	dr. sc. Sanja Kusačić Kuna

Date	Time	Group	Course hours type	Theme	Teaching staff
	08:45-09:30; KBC, Klinički zavod za nuklearnu medicinu, predavaonica (soba 4)	All	Seminar	Nuclear medicine in hematology	izv. prof. dr. sc. Dražen Huić
	09:45-10:30; KBC, Klinički zavod za nuklearnu medicinu, predavaonica (soba 4)	All	Clinical practicals	Lymphoscintigraphy	izv. prof. dr. sc. Dražen Huić
	11:00-11:45; KBC, Klinički zavod za nuklearnu medicinu, predavaonica (soba 4)	All	Lectures	Scintigraphy of inflammatory diseases	izv. prof. dr. sc. Dražen Huić
	11:45-12:30; KBC, Klinički zavod za nuklearnu medicinu, predavaonica (soba 4)	All	Lectures	Therapy using different radionuclides	izv. prof. dr. sc. Dražen Huić
	12:30-13:15; KBSM, Klinika za onkologiju i nuklearnu medicinu	All	Clinical practicals	Therapy using different radionuclides	dr. sc. Sanja Kusačić Kuna
Thursday 15.12.2016.	08:00-09:30; KBC, Klinički zavod za nuklearnu medicinu, predavaonica (soba 4)	All	Lectures	Nuclear medicine in cardiology and pulmology	doc. dr. sc. Stanko Težak
	09:30-10:15; KBC, Klinički zavod za nuklearnu medicinu, predavaonica (soba 4)	All	Lectures	Nuclear medicine in gastroenterology	izv. prof. dr. sc. Mirjana Poropat
	10:30-11:15; KBC, Klinički zavod za nuklearnu medicinu, predavaonica (soba 4)	All	Seminar	Nuclear medicine in gastroenterology	izv. prof. dr. sc. Mirjana Poropat
	11:45-12:30; KBC, Klinički zavod za nuklearnu medicinu, predavaonica (soba 4)	All	Lectures	PET	izv. prof. dr. sc. Dražen Huić
	12:30-13:15; KBC, Klinički zavod za nuklearnu medicinu, predavaonica (soba 4)	All	Clinical practicals	PET	Andrea Mutvar, dr. med.

Date	Time	Group	Course hours type	Theme	Teaching staff
Friday 16.12.2016.	08:00-08:45; KB 'Sestre Milosrdnice'	All	Clinical practicals	Phlebotrombosis	Marija Punda
	08:45-09:30; KB 'Sestre Milosrdnice'	All	Seminar	Nuclear medicine in neurology	doc. dr. sc. Maja Franceschi
	09:45-10:30; KBSM, Klinika za onkologiju i nuklearnu medicinu	All	Lectures	Tumor diagnosis	doc. dr. sc. Maja Franceschi
	10:45-11:30; KBSM, Klinika za onkologiju i nuklearnu medicinu	All	Clinical practicals	Scintigraphy of inflammatory diseases	Marija Punda
	11:45-12:30; KBSM, Klinika za onkologiju i nuklearnu medicinu	All	Clinical practicals	Nuclear medicine in endocrinology	doc. dr. sc. Maja Franceschi
	12:30-13:15; KBSM, Klinika za onkologiju i nuklearnu medicinu	All	Seminar	Comparison of nuclear medicine and other diagnostic procedures	doc. dr. sc. Maja Franceschi

**NOTE:**

**On Monday, Wednesday and Thursday classes are held in the Department of Nuclear Medicine and radiation protection, University Hospital Centre Zagreb, Kispaticeva 12.**

**On Tuesday and Friday in the Department of oncology and nuclear medicine, Sisters of Mercy, Vinogradska 29**

**IV. EXAMINATIONS**

Oral exam (usually 3 questions)

1. Liver scintigraphy
2. Procedures in inflammatory diseases
3. Nuclear medicine procedures in gastrointestinal bleeding

**COURSE GRADES**

5 = excellent

4 = very good

3 = good

2 = satisfactory

fail

#### **V./I. LIST OF LECTURERS AND TEACHING STAFF**

1. izv. prof. dr. sc. Dražen Huić
2. doc. dr. sc. Maja Franceschi
3. dr. sc. Sanja Kusačić Kuna
4. Andrea Mutvar, dr. med.

#### **V./II EXTERNAL ASSOCIATES:**

1. izv. prof. dr. sc. Mirjana Poropat
2. dr. sc. Zvonko Kusić
3. Marija Punda
4. Marina Prgić, pred.

#### **V./III UNTENURED LECTURERS:**

1. doc. dr. sc. Stanko Težak

#### **VI. LITERATURE**

Fred A. Mettler, Jr., and Milton J. Guiberteau: Essentials of nuclear medicine imaging, editors W.B. Saunders Company, 1998.