

Day	Date	Time	Moment	Literature	Place	Lecturer
fre	5 okt	08:15 - 10:00	Introduction. Basic quantities and units.	FA1-2, 16VIII,	Marmorsalen	HT
tis	9 okt	08:15 - 10:00	Charged particle equilibrium (CPE). Free air ionization chamber	FA4	Marmorsalen	HT
tor	11 okt	08:15 - 10:00	Bragg-Gray cavity theory	FA10 I-IV	Marmorsalen	HT
tor	11 okt	10:15 - 11:00	To work in a project		Marmorsalen	NN
fre	12 okt	08:15 - 10:00	Calculation exercise		Marmorsalen	HT
mån	15 okt	13:15 - 15:00	Spencer-Atti, Burlin cavity theories. Vectorial quantities. The Transport equation	FA10 V-VI	Marmorsalen	HT
tis	16 okt	08:15 - 10:00	Spencer-Atti, Burlin cavity theories. Vectorial quantities. The Transport equation	FA10VII-IX,	Marmorsalen	HT
fre	19 okt	08:15 - 10:00	Spencer-Atti, Burlin cavity theories. Vectorial quantities. The Transport equation	FA10VII-IX,	Marmorsalen	HT
mån	22 okt	13:15 - 15:00	Calculation exercise		Marmorsalen	HT
tis	23 okt	08:15 - 10:00	Ion chamber dosimetry. Calibration with ionization chambers	FA11, 12 III-V	Marmorsalen	HT
tis	23 okt	10:15 - 11:00	Presentation of pre-studies before free-air-ion chamber lab. 30 minutes per group		Heikki's office	HT
tor	25 okt	08:15 - 10:00	Calculation exercise. Calorimetry, liquid ionization chamber. More about W-value	FA14	Marmorsalen	HT
tis	30 okt	12:15 - 17:00	Free-air-ionization chamber lab. Group 1. Note: time may be changed		Radiotherapy	HT
tor	1 nov	12:15 - 17:00	Free-air-ionization chamber lab. Group 2. Note: time may be changed		Radiotherapy	HT
tis	6 nov	08:15 - 10:00	Microdosimetri, LET.		Marmorsalen	HT
tor	8 nov	10:15 - 12:00	Calculation exercise.		Marmorsalen	HT
fre	9 nov	08:15 - 10:00	Recombination losses. Theory and experimental methods.		Marmorsalen	HT
tor	15 nov	10:15 - 12:00	Internal dosimetry		Marmorsalen	HL
tor	15 nov	13:15 - 15:00	Fluence- and Energy Fluence rate from various sources.	Slides	Marmorsalen	HT
tis	20 nov	10:15 - 12:00	Neutrondosimetry, Dosimetry at low photon energies	FA 16 I-VII	Marmorsalen	HT
ons	21 nov	10:15 - 12:00	Calculation exercise (Internal dosimetry).		Marmorsalen	HL
tor	22 nov	10:15 - 12:00	Calculation exercise		Marmorsalen	HT
mån	26 nov	13:15 - 15:00	Repetition (HT)		Marmorsalen	HT
tor	29 nov	09:00 - 15:00	Exam theoretical part		Östra Paviljongen	HT
fre	30 nov	08:15 - 10:00	Calculation exercise, repetition		Marmorsalen	HT/HL
mån	3 dec	09:00 - 15:00	Exam calculation part		Östra Paviljongen	HT/HL

Litteratur:

FA F H Attix Introduction to Radiological Physics and Radiation Dosimetry.  
ICRU 60 Radiation Quantities and Units.

Lärare:

HL Helena Lizana  
HT Heikki Tölli