

# COURSES

## 1st and 2nd Semester (Mandatory Courses – 20 credits)

Pato-Anatomy, and Physiology (2 credits)  
Advanced Radiological Physics and Dosimetry (2 credits)  
Application of Radiobiology (2 credits)  
Medical Imaging Physics (2 credits)  
Radiotherapy Physics (2 credits)  
Computational Medical Physics (2 credits)  
Laboratory work (2 credits)  
Sensor and Biomedical Instrumentation (2 credits)  
Biomedical Physics (2 credits)  
Ethics of Medical and Clinical Medical Physics (2 credits)

## 2nd Semester (Elective Courses – 6 credits)

### Radiotherapy Physics Track

Imaging and Radiotherapy Planning Technology (3 credits)  
Advanced Radiotherapy Techniques (3 credits)  
Radiation Protection and Safety (2 credits)

### Imaging and Nucmed Physics Track

Advanced Medical Imaging Physics (3 credits)  
Advanced Nuclear Medicine Physics (3 credits)  
Radiation Protection and Safety (2 credits)

### Biomedical Physics Track

Bioelectromagnetism (2 credits)  
Biomedical Materials (2 credits)  
Biological Material (2 credits)  
Biomedical Optics (2 credits)

## 3rd and 4th

3rd Semester

Scientific Publication (2 credits)

4th Semester

Master Thesis (8 credits)

## Title Awarded

Upon the completion of their study, students will be awarded the title Magister Sains (M.Si.)

## Title Structure

Master of Medical Physics study program UI is the first master medical physics study program in Indonesia. For details about master of medical physics study program, see <http://https://physics.ui.ac.id/academic/master-in-medical-physics/>