**The Hashemite University**
**Faculty of Allied Health Sciences**
**Department of Medical Imaging**
***Course Syllabus***

| Course information | |
|---|---|
| **Course Title** | Computed Tomography (2) |
| **Course Code** | 110508433 |
| **Prerequisites** | 110508332 |
| **Credit Hours** | 3 (2 Theory + 3 Lab hours) |

**Course Description**

This course aims at introducing the students to the clinical use of computed tomography. In addition, different CT imaging protocols, factors and modifications will be covered in this course. One important aim of this course is to understand how to deal with patients before, during and after CT examination.

**Course Objectives**

By the end of this course, the student is expected to:

Be able to link between the clinical situation and suitable imaging procedure
Understand the CT imaging procedure for each clinical situation
Understand the proper patient preparation and privacy in each CT imaging procedure
Know how to perform any CT imaging protocol with high benefit-to-risk ratio
Understand the imaging parameters trade-off

**Recommended Textbook**

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|---|---|
| **Title** | Computed Tomography for Technologists: A comprehensive Text |
| **Author** | Loise E. Romans |
| **Publisher** | Lippincott Williams & Wilkins |
| **Year** | 2011 |
| **Edition** | First |
| **Book website** | http://thepoint.lww.com/romansct |

**Course Contents**

- *Introduction*
- *Physical Principles of Computed Tomography (Revision)*
- *Patient Communication*
- *Patient preparation*
- *Contrast Agents*
- *Injection techniques*
- *Imaging procedures and protocols-Neurological Imaging*
- *Imaging procedures and protocols-Thoracic Imaging*
- *Imaging procedures and protocols-Abdomen and Pelvis Imaging*
- *Imaging procedures and protocols-Musculoskeletal Imaging*
- *Imaging procedures and protocols-Interventional CT Imaging*
- *Imaging procedures and protocols- PET-CT Imaging*

**Assessment**

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| **First Exam** | 25% |
| **Second Exam** | 25% |
| **In course and lab** | 10% |
| **Final Exam** | 40% |