



**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	
Title	Computed Tomography for Technologists: A comprehensive Text
Author	Loise E. Romans
Publisher	Lippincott Williams & Wilkins
Year	2011
Edition	First
Book website	<a href="http://thepoint.lww.com/romansct">http://thepoint.lww.com/romansct</a>
Course Contents	
<ul style="list-style-type: none"> <li>❖ <i>Introduction</i></li> <li>❖ <i>Physical Principles of Computed Tomography (Revision)</i></li> <li>❖ <i>Patient Communication</i></li> <li>❖ <i>Patient preparation</i></li> <li>❖ <i>Contrast Agents</i></li> <li>❖ <i>Injection techniques</i></li> <li>❖ <i>Imaging procedures and protocols-Neurological Imaging</i></li> <li>❖ <i>Imaging procedures and protocols-Thoracic Imaging</i></li> <li>❖ <i>Imaging procedures and protocols-Abdomen and Pelvis Imaging</i></li> <li>❖ <i>Imaging procedures and protocols-Musculoskeletal Imaging</i></li> <li>❖ <i>Imaging procedures and protocols-Interventional CT Imaging</i></li> <li>❖ <i>Imaging procedures and protocols- PET-CT Imaging</i></li> </ul>	
Assessment	
First Exam	25%
Second Exam	25%
In course and lab	10%
Final Exam	40%