



Advanced Imaging Techniques

Introduction

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Learning Goals

- introduction to advanced imaging techniques in MR, CT and CBCT
 - basic MRI principles -> Physics of Imaging Techniques

- Goals:

1. How does the technique work ?
2. What kind of images do we receive?
3. Where is this applied to ?



- Literature is given in the respective lectures
- Slides of the lectures at <https://www.umm.uni-heidelberg.de/inst/cbtlm/ckm/lehre/index.html>



Topics covered

■ MRI

- Perfusion
- Diffusion
- X-Nuclei
- Elastography
- Fingerprinting

■ CT

- Dual Energy
- Phase Contrast

■ CBCT

- CT
- Tomosynthesis

