## Lecture Outline for Exam II

### Lectures as given

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### Outline

3. Modern Planetary Astronomy

3.1. Overview

1. The whole point
2. Introductory slideshow
3. Quick inventory
4. Key properties of the Solar System
5. Some definitions

3.2. The terrestrial worlds

1. Global properties
2. Surface geology
3. Interiors
4. Atmospheres
5. Life and water on Mars
6. Climatology on Earth
3.3. Asteroids
   1. The Bode-Titius Relation
   2. Discoveries
   3. Locations of asteroids
   4. Kirkwood Gaps
   5. Impacts
   6. Types of asteroids
   7. Asteroids up close

3.4. The jovian worlds
   1. Overview
   2. Atmospheres
   3. Internal structure
   4. Ring systems

3.5. The outer icy worlds
   1. Overview
   2. The Galilean System
   3. The other moons of Jupiter
   4. The moons of Saturn
   5. The moons of Uranus
   6. The moons of Neptune
   7. Trans-Neptunian Objects

3.6. The outer Solar System
   1. Comets
   2. The Oort Cloud
   3. Meteors

3.7. Formation of the Solar System
   1. Three major models
   2. The accretion model
   3. Observational evidence
   4. Composition and mass
   5. The Galilean System
   6. Other moon systems