



COURSE DATASHEET

Semester:	2014/15/1
Course:	Astronomical workshops
Code:	VEMKSVB521C
Responsible department:	
Department code:	MKTO2
Responsible instructor:	Tamás Ladányi

Course objectives:

We offer a brief survey of history of astronomy, its equipment, the celestial bodies and the recent research projects. Besides we recommend interactive participation in some specialized fields of astronomy.

Course content:

- 1 History of the astronomy from antiquity to the recent day I.
- 2 History of the astronomy from antiquity to the recent day II.
- 3 Optical basics and development of the telescopes
- 4 History of the research and measuring techniques
- 5 Celestial mechanics, motions in the sky
- 6 Objects of the Solar System in images and stories
- 7 Astrophysical outlook to the world of stars and galaxies
- 8 History of the space research from Laika dog to International Space Station
- 9 Recent research of the planets and Solar System
- 10 Working of the space telescopes (Hubble) and the giant telescopes
- 11 Excerpts in the field of planet morphology, atmospheric optics, astrobiology, exoplanet research
- 12 Research projects for everybody
- 13 Catching the light or possibilities of the astrophotography
- 14 Visiting and using of the equipment (both visually and digitally) in an observatory

Requirements, evaluation and grading:

Students must write two papers in a semester, one paper during the semester and one at the end of it. The final mark is the weighed mean value (rounded) of the two marks received for the two papers. The mark of the second (at the end of the semester) paper is multiplied by two. The mark of the second paper is strictly required to be at least 2, and the mean value of the two papers must be better than 2.00.

Required and recommended readings:

Joachim Herrmann: Csillagászat, Michael A. Seeds: Foundations of astronomy