| **1. Course title:** Introduction to Astronomy | | | | |
| --- | --- | --- | --- | --- |
| **2. Code: ENAFOLNA0701** | | **3. Type (lecture, seminar, laboratory):** lecture | | |
| **4. Total of contact hours:** 26 hours | | **5. Number of credits (ECTS):** 2 | | |
| **6. Pre-requisites (max. 3):** none | | | | |
| **7. Announced:** ☒ autumn semester, ☐ spring semester, ☐ both semesters | | | | |
| **8. Limit for participants:** no | | | | |
| **10. Instructor-in-charge (faculty, institute and department):**  László NAGYVÁRADI, PhD (FS, Institute of Geography, Department of Cartography and Geoinformatics) | | | | |
| **11. Instructor(s) and percentage:** | | László NAGYVÁRADI | | 100 % |
|  | |  |
|  | |  |
|  | |  |
| **12. Language:** English | | | | |
| **13. Course objectives and learning outcomes:**  *To know the fundamentals of the astronomy: The history of the development of astronomy, the basics of the astronomical geography: like orientation and navigation star constellation. Coordinate systems About the solar system: planet Earth shape, size, and movements, terrestrial and Jovian planets characteristics, the origin and the development of Solar System, small celestial bodies, moons , asteroids, comets. The Sun as a star basics about other stars, galaxies. The origin of the Universe.* | | | | |
| **14. Course outline / Milestones**  Week 1 Introduction in to astronomy, the history of the observations, the great astronomers  Week 2 Navigation, orientation, the coordinate systems.  Week 3 Spherical astronomy lecture in the Plenatarium  Week 4 The Earth as a planet and it’s movements geographical conclusions  Week 5 The Moon and it’s effects to the Earth  Week 6 The origin of the Solar system.  Week 7 Mercury and Venus and the Mars  Week 8 Jovian planet The moons of the Jovian planets  Week 9 Dwarf planets, Asteroids,Meteorites, Comets Exoplanets  Week 10 Astrophysical basics: the life of the stars  Week 11 Galaxies  Week 12 The origin of the universe-theories  Week 13 Writing exam | | | | |
| **15. Mid-semester works** | | | | |
| **16. Summative assessment, formative assessment**  Grading percentages may vary according to the position of the Gauss curve, but the approximate ranges are the followings:  just less than 50% = 1  50 to 64.99% = 2  65 to 74.99% = 3  75 to 84.99% = 4  85+% = 5  Attendance at all activities will be monitored. Students who fail to attend the activities, or to complete the summative or formative assessment specified above, will not gain the credit for the course. | | | | |
| **17. Reading assignments:**   1. PARAMON’S ED. TEAM 2002: Essential atlas of Astronomy, Barron’s New York, 96 p. | | | | |
| **18. Recommended texts:** | | | | |
| **Date** | 13 November, 2017 | **Prepared** |  | |
| László NAGYVÁRADI PhD  instructor-in-charge | |
| **Endorsed** | | |  | |
| András TRÓCSÁNYI PhD leader of the program | |