Extragalactic Astrophysics

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Learning objectives for the subject:

The aim of the course is to familiarize students with the main concepts of extragalactic astronomy, both from the observational and theoretical perspectives, relating observations to the most popular theories and cosmological models.

Topics include: ways to classify galaxies; study of the properties of galaxies such as luminosity, luminosity profiles, stellar and total masses; classification of galaxy clusters, research on their properties; issues in the field of the evolution of galaxies and clusters; methods of studying the properties and evolution of the large-scale structure of the Universe, both from the observational point of view and interpretation in the light of the currently most common theoretical models.

ECTS points balance:

Form of student activity	**Average number of hours* spent for the types of activities performed**
Lecture	30
Participation in the exam	1
Exam preparation	9
Studying the literature indicated by the teacher	25
Self-study on the content covered in class	25

* (lesson) hour means 45 minutes

Total student workload	**Hours** 90	**ECTS** 3
Number of contact hours	**Hours** 30	**ECTS** 1

Learning methods:

Type of classes	**Forms of passing**	**Conditions for passing the course**
Lecture	Oral exam	The condition for passing the oral exam is to provide exhaustive answers to questions from the thematic scope of the lecture, demonstrating that the expected learning has been achieved.