



Astronomy & Space Science (PHYC10050)

School: Physics

Level: 1

Credits: 5

Pass Mark: 40

Semester: One

Module Coordinator: Dr Antonio Martin Carrillo

Description

We live in a golden age of astronomy. This module provides an introduction to astronomy, from the earliest theories through to the most current scientific knowledge of the universe. Topics include the solar system, extrasolar planets, the sun, stars and their evolution, black holes and the Big Bang. There is an emphasis on the role of space-based technology in our understanding of the formation and evolution of the universe and its contents. This module is not highly mathematical or quantitative and is probably not appealing to students seeking a rigorous mathematical introduction to the subject.

Learning Outcomes

On completion of this module students should be able to:-

1. Summarise the development of ideas about the universe from earliest records to modern times;
2. Connect these ideas with their underlying empirical and/or theoretical foundations;
3. Relate observable phenomena in the universe to the underpinning physical processes;
4. Apply mathematical formulae and physical laws to solve problems in astronomical topics encountered;
5. Display familiarity with the motions, brightnesses and appearances of different celestial bodies in the sky;
6. Use astronomical tools and software to plan and execute naked-eye observations.

Associated Programmes

N/A

Workload

Lectures	24 hrs
Tutorial	12 hrs
Autonomous Student Learning	84 hrs
Total Hours	120 hrs

Assessment Strategies

Description	Timing	%Final Grade
Weekly Tutorial Assignment	Varies	20
2 hour written exam	End_Sem_Exam_2	60
Class Test (mid-semester MCQ)	Week5	10
Class Test (end of semester MCQ)	Week11	10