

COURSE DESCRIPTION

Department of Service Courses

Introduction to Astronomy **Course No.: (01101282)** **(3 CHs)**

- The Nature of Astronomy: a brief history about the development of Astronomy;
- Light and electromagnetic radiation;
- Astronomical observatories and instruments: optical monitoring instruments, radio monitoring instruments;
- Solar System: the sun, the Earth and its moon, the planets and their moons;
- Stars: their movement, distance, brightness, absolute magnitudes, temperatures, and sizes;
- Galaxies: the Milky Way Galaxy, other galaxies;
- black holes;
- The universe.

Course outcomes:

1. To be Familiar with the history of the development of astronomy.
2. To study the properties of light and electromagnetic radiation resulting from celestial bodies.
3. To learn about the types of observatories used to observe celestial bodies.
4. To interpret some natural phenomena such as climate changes by linking them to the movement and position of the Earth in the solar system.
5. To classify the stars based on their temperature, color, and size.
6. To classify the galaxies.
7. To learn about the black holes and their effect on other celestial bodies.