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# Statement of participation

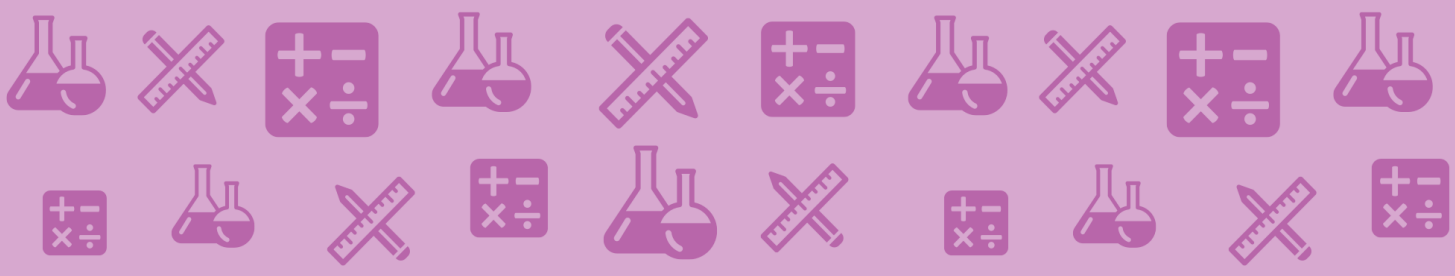
## Sudhan R

has completed the free course including any mandatory tests for:

### Astronomy: images of the Universe

This 6-hour course introduced techniques used for the observation and measurement of astronomical objects.

**Issue date:** 7 September 2024



**www.open.edu/openlearn**

This statement does not imply the award of credit points nor the conferment of a University Qualification.
This statement confirms that this free course and all mandatory tests were passed by the learner.

Please go to the course on OpenLearn for full details:
**https://www.open.edu/openlearn/science-maths-technology/astronomy-images-the-universe/content-section-0**

COURSE CODE: **S284_1**

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# Astronomy: images of the Universe

https://www.open.edu/openlearn/science-maths-technology/astronomy-images-the-universe/content-section-0

## Course summary

Modern astronomy utilises a range of techniques across the electromagnetic spectrum that allow astronomers to measure the brightness, size and shape of astronomical objects, as well as their structure in many cases. This free course enables you to explore multiwavelength images of the Universe and make your own measurements of stars, nebulae and galaxies using online tools and databases. You will explore the different types of nebulae in the Messier catalogue, considering their sizes and distances using an interactive Scales tool, and use a web tool called Chromoscope to survey the Milky Way in different wavebands.

## Learning outcomes

By completing this course, the learner should be able to:

- understand key ideas, concepts and principles in astronomy, applied to stars and galaxies, including multiwavelength observational methods
- use appropriate searching, graphical, and mathematical methods to gather, analyse and interpret astronomical data and information
- acquire and analyse scientific information from a wide range of sources.

## Completed study

The learner has completed the following:

**Section 1**

Images and measurements

**Section 2**

Structure in images

**Section 3**

Colour in astronomy images

**Section 4**

Mapping the sky