

Liverpool John Moores University

Title: OBSERVATIONAL ASTROPHYSICS PROJECT
Status: Definitive
Code: **7007ASTPHY** (121042)
Version Start Date: 01-08-2018

Owning School/Faculty: Astrophysics Research Institute
Teaching School/Faculty: Astrophysics Research Institute

| Team | Leader |
|-----------------|--------|
| Andreea Font | Y |
| Steven Longmore | |
| David Bersier | |
| Philip James | |
| Chris Collins | |

Academic Level: FHEQ7 **Credit Value:** 60 **Total Delivered Hours:** 14
Total Learning Hours: 600 **Private Study:** 586

Delivery Options

Course typically offered: Summer

| Component | Contact Hours |
|-----------|---------------|
| Online | 14 |

Grading Basis: 40 %

Assessment Details

| Category | Short Description | Description | Weighting (%) | Exam Duration |
|--------------|-------------------|--|---------------|---------------|
| Dissertation | Project | Masters Level Project on a chosen area of Observational Astrophysical Research | 70 | |
| Presentation | Viva | Online viva based on the submitted project | 30 | |

Aims

To allow students to develop the skills required to be involved in real scientific research.

*To give students the experience of working independently on an original problem.
To give students the opportunity to display qualities and skills such as initiative,
ingenuity and communication.*

Learning Outcomes

After completing the module the student should be able to:

- 1 Demonstrate experience of planning and carrying out detailed scientific research.
- 2 Discuss and critically appraise a selected area of current astrophysical research.
- 3 Critically present and communicate the results of an investigation.

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

| | | | |
|-----------------------|---|---|---|
| Masters level project | 1 | 2 | 3 |
| Online project viva | 1 | 2 | 3 |

Outline Syllabus

Appropriate project areas will be decided in consultation with the tutor and student.

Learning Activities

Distance learning with email discussion with project supervisor.
Relevant software and operating system will be provided to each student on a USB memory stick.

Notes

There will be particular emphasis on developing independent learning skills and IT capability. Online literature searches and evaluation of relevant scientific and popular literature will be key aspects, together with development of written communication skills.

Module delivered by distance learning.

Please note that the assessment of this module will include a recorded viva examination.