Imperial College London

# Module Specification (Curriculum Review)

## Basic details

| | | | | |
|---|---|---|---|---|
| | | | Earliest cohort | Latest cohort |
| UID | | Cohorts covered | 2024-25 | |
| Long title | Self-study project | | | |
| New code | PHYS70028 | New short title | | |
| Brief description of module *(approx. 600 chars.)* | This module lets you develop your ability to distil information from the scientific literature using methods appropriate to the chosen topic. You will develop skills for analysing and critiquing the literature. You will produce a report outlining the background to the chosen topic and the key steps in its development from conception through to the current state-of-the-art. Typically the topic chosen will be a research area or technique. | | | |
| | 440 characters | | | |
| Available as a standalone module/ short course? | N | | | |

## Statutory details

| | ECTS | CATS | Non-credit | | |
|---|---|---|---|---|---|
| Credit value | 5 | 10 | N | HECOS codes | |
| FHEQ level | Level 7 | | | | |

## Allocation of study hours

| | Hours | |
|---|---|---|
| Lectures | 0 | |
| Group teaching | 0 | *Incl. seminars, tutorials, problem classes.* |
| Lab/ practical | | |
| Other scheduled | 12 | *Incl. project supervision, fieldwork, external visits.* |
| Independent study | 113 | *Incl. wider reading/ practice, follow-up work, completion of assessments, revisions.* |
| Placement | 0 | *Incl. work-based learning and study that occurs overseas.* |
| Total hours | 125 | |
| ECTS ratio | 25.00 | |

## Project/placement activity

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|---|---|
| Is placement activity allowed? | No |

## Module delivery

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|---|---|---|---|
| Delivery mode | Taught/ Campus | Other | |
| Delivery term | Term 2 | Other | |

## Ownership

| | |
|---|---|
| Primary department | Physics |
| Additional teaching departments | |
| Delivery campus | South Kensington |

## Collaborative delivery

| | |
|---|---|
| Collaborative delivery? | N |

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|---|---|
| External institution | N/A |
| External department | N/A |
| External campus | N/A |

## Associated staff

| Role | CID | Given name | Surname |
|---|---|---|---|
| Module Leader | | Christopher | Dunsby |
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## Learning and teaching

### Module description

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| Learning outcomes | On completion of this module you will be able to:<br>- appraise and interpret the scientific literature to extract information on a particular topic<br>- critically review material extracted from the scientific literature and be able to explain the development of the topic to the current state-of-the-art<br>- produce a written report on the literature review and give an associated oral presentation |
| Module content | An independent literature review of a research topic or technique in optics and photonics. Using the scientific literature students develop an understanding of the basic principles behind their selected topic, and the research and/or development that has been applied around that topic to bring it to its current day standing. |
| Learning and Teaching Approach | The students will work individually on a literature review with a high degree of independence. Topic choice is through discussion between the student and self-study supervisor. Work on this module is spread across Term 2. During this period students have regular weekly meetings with the supervisor giving students an opportunity to discuss progress and future plans. |
| Assessment Strategy | The module is assessed by a written report that contributes 80% of the total mark. The students also give a 15-minute presentation, followed by 5 minutes of questions, to the whole MSc class plus the project supervisor and other academic staff that has a weight of 20%. |
| Feedback | Informal feedback will be provided to the student by their supervisor(s) continuously through the duration of the work.<br>Students will receive feedback from the supervisor on the structure of their thesis and on any specific areas that they wish to consult their supervisor on. |
| Reading list | A set of initial reading appropriate to the particular project will be provided by the supervisor. |

## Quality assurance

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| Date of first approval | |
| Date of last revision | June 2023 |
| Date of this approval | |
| Module leader | Christopher Dunsby |

## Office use only

| | |
|---|---|
| QA Lead | |
| Department staff | |
| Date of collection | |
| Date exported | |
| Date imported | |

| | |
|---|---|
| Notes/ comments | |

Template version 16/06/2017