**UNIVERSITY OF SALFORD** FORM MS (2015/16)

## MODULE SPECIFICATION

*Please contact the Quality Enhancement Office for guidance completing this form on QEO-General@salford.ac.uk*

*This form is available to download from http://www.governance.salford.ac.uk/page/aqa_forms*

Date of completion of this version of Module Specification: 10/06/2016

Date of approval by the PARP: Click here to enter a date.

| 1. Module Title: (Full title and short title no more than 30 characters) | 2.CRN: |
|---|---|
| Foundation Physics Laboratory | 50158 |

| 3.University module code: | 4.HESA/JACS subject area code[i]: |
|---|---|
| | F300 |

| 5.Level: | 6.Credit Value: | 7.ECTS Value[ii]: | 8.Length of module in semesters: | 9.Month(s) in which to be offered[iii]: |
|---|---|---|---|---|
| Level 3 | 20 | 10 | 2 | September |

| 10.Module Status[iv] | 11.Title of Module being replaced *(if any):* | 12.With effect from[v] (academic year): |
|---|---|---|
| New | | September 2017 |

| 13.Originating School: | 14.Module Leader(s) |
|---|---|
| School of Computing, Science & Engineering | TBC |

15.Programme(s) in which to be offered[vi]:

BEng Audio Acoustics with Foundation Year
BSc Electronic Engineering with Foundation Year
BSc Physics with Foundation Year

| 16.Pre-requisites *(between levels):* | 17.Co-requisites *(within a level):* |
|---|---|
| | |

18.Indicative learning hours (breakdown of hours required)[vii] 200

| | | | |
|---|---|---|---|
| Lecture | | Fieldwork | |
| Seminar | | External visits | |
| Tutorial | | Work based learning | |
| Project supervision | | Guided independent study | 131 |
| Demonstration Practical classes and workshops | 69 | Placement | |
| Supervised time in studio/workshop | | Year abroad | |
| Other – please specify[viii] | | | |

19.Percentage of module taught by School(s) other than originating School: 0%

20.Aims of Module[ix]: (maximum of 5)

1. To develop practical laboratory skills in physics.
2. To develop skills in the taking and critical analysis of data.
3. To develop skills in scientific reporting

21.Intended Learning Outcomes[x]

Knowledge and Understanding (maximum of 5)[xi]
On successful completion the student will be able to:

(1) Demonstrate basic laboratory skills including empirical measurement
(2) Demonstrate competence in the recording and analysis of empirical data

Transferable/Key Skills and other attributes (maximum of 5)

On completion the student will be able to:

(3) Demonstrate practical problem solving skills
(4) Demonstrate communication through written material

22. Module mark calculation: Method A

23.Assessment components (in chronological order of submission/examination date)
Denote final assessment component in box marked **final assessment component (99)**

| Type of assessment | Identify which ILO is met by number[xii] | Weighting % | Duration | Word count | Component pass required[xiii] | E Submission | Assessment organised by |
|---|---|---|---|---|---|---|---|
| Physics Laboratory | 1-3 | 50 | | | No | No | School |
| | | | | | Choose an item. | Choose an item. | Choose an item. |
| **Final assessment component (99)**<br><br>Formal Reports | 4 | 50 | | 2x1000 | No | Yes | School |

| | | | |
|---|---|---|---|
| 24. Is ethical approval for the module required? | No | 25. Is ethical approval for an assessment component required?[xiv] | No |

26.Learning, teaching and assessment strategies:

The module comprises of weekly 3 hour laboratory classes

Initial training is given in physics based equipment and measurement techniques. Students then embark on a series of supervised experiments which involve the setting up of the experiment, the systematic gathering of data, and the critical analysis of the data including error analysis.

The laboratory assessment is based on observation during classes and on the reporting in the log book for each experiment. In addition 2 formal reports (concise scientific reports based on one of the experiments conducted in each semester) are assessed.

27.Syllabus outline:

Experimental design
Methods of scientific measurement
Data analysis and errors
A series of experiments covering, mechanics, thermal physics, electricity, and waves.

28.Indicative texts and/or other learning materials/resources[xv]:

Physics (Palgrave Foundation Series) – Jim Breithaupt – Palgrave Macmillan; 4th edition edition (22 Jan. 2015) ISBN-10: 1137443235

Practical Physics – G. L. Squires - Cambridge University Press; 4 edition (21 Aug. 2008) ISBN-10: 0521779405

After initial approval, up to date reading lists can be accessed at https://salford.rl.talis.com/index.html

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|---|
| Note: This replaces the LaSU reading lists from September 2015 onwards. |

For Office Use only:

| | |
|---|---|
| QEO Comments: | |

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[i] See UoS guidance notes on selecting JACS codes (http://www.planning.salford.ac.uk/jacs_codes/)
see HESA JACS Codes webpage http://www.hesa.ac.uk/index.php/content/view/356/233/

[ii] The ECTS value is half of the module credit value

[iii] Please indicate the month (s) in which delivery of the module will commence.

[iv] Amendments to the title or credit value constitute a new module.

[v] If the delivery month of the module is to be available for different intakes of a programme, please indicate this here. E.g. Module effective from Sept 2014 – to state the module is to be available for Sept 2014 intake & Feb 2014 intake.

[vi] The module will only be attached to programmes specified in this section. Any approved module can be available as a stand-alone module.

[vii] These categories are used for the Key Information Set which currently applies only to full time undergraduate students only but please include for all students – for more information including definitions see
http://www.qaa.ac.uk/Publications/InformationAndGuidance/Documents/contact_hours.pdf and
http://www.hesa.ac.uk/component/option,com_studrec/task,show_file/Itemid,233/mnl,13061/href,Calculations_methods.html/#LearningandTeaching

[viii] The 'other' category should not be used for learning undertaken by full undergraduate students as 'other' is not used in KIS categories

[ix] The aims should express the purpose of the module.

[x] The intended learning outcomes should detail the knowledge, understanding and skills that students will be able to demonstrate on successful completion.

[xi] In some circumstances it may be necessary to have more than 5 intended learning outcomes. You will be asked to provide your rationale for this in discussion at the USP.

[xii] For example, if the assessment is an essay and the essay meets ILOs number 1-4 and 6-7, state 1-4,6-7

[xiii] If Method B is used for module mark calculation, indicate Yes to specify the assessment component(s) to be passed in order to pass the module

[xiv] Please specify component(s) for which ethical approval is required.

[xv] The "Indicative texts and/or learning materials/resources" box should include a maximum of five items for new modules. These should be formatted using the University's agreed referencing style for the subject area (usually APA Harvard System 6th). See http://www.salford.ac.uk/library/infolit/tool#referencing_tab for more information. The texts should normally be recent texts (i.e. within the last six years) unless they are a particularly "classic" text. For existing modules, the "Indicative texts and/or learning materials/resources" box should include a link for PARP reviewers and readers to the comprehensive reading list at http://lasu.salford.ac.uk