

**The University of Leeds**  
**EXTERNAL EXAMINER'S REPORT**

ACADEMIC YEAR: 2013– 2014

**Part A: General Information**

**Subject area and awards being examined**

|                               |                           |
|-------------------------------|---------------------------|
| Faculty / School of:          | Physics and Astronomy     |
| Subject(s):                   | <i>Quantum Technology</i> |
| Programme(s) / Module(s):     | MSc Projects              |
| Awards (e.g. BA/BSc/MSc etc): | MSc                       |

**Name and home Institution / affiliation of Examiner**

**Completed report**

The completed report should be attached to an e-mail and sent as soon as possible, and no later than six weeks after the relevant meeting of the Board of Examiners, to [exexadmin@leeds.ac.uk](mailto:exexadmin@leeds.ac.uk).

Alternatively you can post your report to: **Head of Quality Assurance**  
Room 12:81, EC Stoner Building  
The University of Leeds, Leeds LS2 9JT

**Part B: Comments for the Institution on the Examination Process and Standards**

**Matters for Urgent Attention**

*If there are any areas which you think require urgent attention before the programme is offered again please note them in this box*

**Only applicable in first year of appointment**

*Were you provided with copies of previous relevant External Examiners' reports and the response of the School to these?*

**For Examiners completing their term of appointment**

*Please comment on your experience of the programme(s) over the period of your appointment, remarking in particular on changes from year to year and the progressive development and enhancement of the learning and teaching provision, on standards achieved, on marking and assessment and the procedures of the School*

The MSc in quantum Technology has always produced a high calibre of graduates and the quality seemed to be improving year on year. It is unfortunate that such a good course is coming to an end.

## Standards

1. **Please indicate the extent to which the programme Aims and Intended Learning Outcomes (ILOs) were commensurate with the level of the award**
- *The appropriateness of the Intended Learning Outcomes for the programme(s)/modules and of the structure and content of the programme(s);*
  - *The extent to which standards are appropriate for the award or award element under consideration.*

Project work was constructive in educating the students to a depth that in some cases went beyond the level expected of an MSc.

2. **Did the Aims and ILOs meet the expectations of the national subject benchmark (where relevant)?**
- *The comparability of the programme(s) with similar programme(s) at other institutions and against national benchmarks and the Framework for Higher Education Qualifications.*

N/A

3. **Please comment on the assessment methods and the appropriateness of these to the ILOs**
- *The design and structure of the assessment methods, and the arrangements for the marking of modules and the classification of awards;*
  - *The quality of teaching, learning and assessment methods that may be indicated by student performance.*

Assessment via reports and viva's was assessed by several individuals and was in most cases consistent and effective.

4. **Were students given adequate opportunity to demonstrate their achievement of the Aims and ILOs?**
- *The academic standards demonstrated by the students and, where possible, their performance in relation to students on comparable courses;*
  - *The strengths and weaknesses of the students as a cohort.*

Projects gave ample opportunity to demonstrate academic standard.

5. **For Examiners responsible for programmes that include clinical practice components, please comment on the learning and assessment of practice components of the curriculum**

N/A

6. **Please comment on the nature and effectiveness of enhancements to the programme(s) and modules since the previous year**

*It would be particularly helpful if you could also identify areas of good practice which are worthy of wider dissemination.*

Mini projects and main project stayed with a single consistent theme which benefited the student's depth of understanding and was an efficient use of effort.

7. **Please comment on the influence of research on the curriculum and learning and teaching**
- This may include examples of curriculum design informed by current research in the subject; practice informed by research; students undertaking research.*

This is a active research area so content is extremely relevant and current in its scope

8. **Where the programme forms part of an Integrated PhD, please comment on the appropriateness of the programme as training for a PhD**

Excellent

## For Examiners involved in mentoring arrangements

9. If you have acted as a mentor to a new External Examiner or have received mentor support please comment here on the arrangements

N/A

## The Examination/Assessment Process

10. The University and its Schools provide guidance for External Examiners as to their roles, powers and responsibilities. Please indicate whether this material was sufficient for you to act effectively as an External Examiner.

*Whether External Examiners have sufficient access to the material needed to make the required judgements and whether they are encouraged to request additional information.*

Yes

11. Did you receive appropriate documentation relating to the programmes and/or parts of programmes for which you have responsibility, e.g. programme specifications or module handbooks, marking criteria?

*The coherence of the policies and procedures relating to External Examiners and whether they match the explicit roles they are asked to perform.*

N/A to projects

12. Were you provided with all draft examination papers/assessments? Was the nature and level of the questions appropriate? If not, were suitable arrangements made to consider your comments?

N/A

13. Was sufficient assessed / examined work made available to enable you to have confidence in your evaluation of the standard of student work? Were the scripts clearly marked/annotated?

Yes

14. Was the choice of subjects for dissertations appropriate? Was the method and standard of assessment appropriate?

Yes

15. Were the administrative arrangements satisfactory for the whole process, including the operation of the Board of Examiners? Were you able to attend the meeting? Were you satisfied with the recommendations of the Board?

Yes

16. Were appropriate procedures in place to give due consideration to mitigating circumstances and medical evidence?

Yes, very much so.

## Other comments

Please use this box if you wish to make any further comments not covered elsewhere on the form

20 November 2014

Dear

We are very grateful for your External Examiner's report on the School's Quantum Technologies MSc course. We are very happy that you consider that our assessment procedures are consistent and effective, and that the quality of our graduates has been high and improving from year to year.

We note your disappointment that the course is coming to an end, but as you know this is solely a result of economic circumstances resulting from a falling enrolment.

I and my colleagues are very grateful for your contributions to our Quantum Technology Course over the past three years. We hope that you will continue to interact with and keep in touch with us in future.

Best wishes,