

Exam Report

Module Code/Title: PHYS3009

Module Leader: Applied Nuclear Physics

Feedback comments:

Students that were registered for and completed PHYS3009 did so with an average mark of 66% and failure rate of 4%. The marks were distributed with a standard deviation of 16%. Feedback was made available to students by providing model answers to past exam papers. The following is a breakdown of how well in general students approached and answered each question:

A1-5: Questions here were generally received well with student able to provide appropriate answers.

A5: Some students described a scintillation material as one who produced an electrical signal as input to the photomultiplier, rather than an optical signal. This was somewhat concerning.

A6: This question was generally answered well.

A7: Many students struggled to provide an adequate description of the MRI process, and tomography in general. Perhaps additional structure in the question might have helped.

B1: This question was answered well by most although some students struggled to derive the response time in (c).

B2-3: These two questions were well received with most students able to provide suitable answers.

B4: There was a significant number of students who were unable to calculate the line-width for Ir-191 which led to further difficulties in the remainder of the question. This is surprising given the amount of time spent on similar problems in classes.

Overall, most students showed a high level of competence.