

## The Structure of a Phd Thesis

Article-based PhD PhD theses may be presented for examination in either monograph style or in an article-based format. The monograph style is where the work is usually laid out as a series of chapters, typically having the structure of introduction, literature review, methodology, results and conclusions.

The article-based PhD is based on a collection of papers (including published papers or papers submitted or accepted for publication) which describe a coherent programme of research undertaken by the student while registered for the PhD. It also contains a short introductory chapter, explanation of the research question, relevant literature and methodology and a concluding chapter. The student's contribution to each article must be made explicit. The article-based format is most often adopted in the general disciplines of Science, Engineering and Medicine while the monograph is usually preferred in the Humanities and Social Sciences.

Both formats for the presentation of the research work are equally valued and both are subject to the same examination process and must meet the academic standards for the award as given in Section 6.1. The article-based PhD format has both advantages and disadvantages. The advantages include wider and earlier dissemination of research results, and experience for the student in writing research articles. The disadvantages include the time delay in acceptance of articles in some research fields and the strict restrictions on the length of research articles which may lead to the omission of methodologies normally included in a monograph. A monograph has the advantage of more readily supporting the development of a sustained argument, with the synthesis of the relevant literature and an integrated discussion of the methodology. The critical and theoretical review of the papers in an article-based PhD must achieve this end.

All other guidelines apply to students irrespective of the format of the thesis that is submitted. Precise guidelines on article-based formats are developed in the five Colleges of the University. The online version of these guidelines should be consulted on the relevant College website. As a general guideline, a minimum of three peerreviewed articles should be included with the PhD candidate normally being first author on the major part of the work. Joint publications may be included, but the candidate must make explicit their contribution to the work. Candidates must agree the final content of the thesis, including the number of published papers with their supervisor(s). The article-based PhD must also include a comprehensive introduction to the overall research topic with the appropriate bibliography. The discussion should refer to how the objectives of the research were met in each of the articles included. Supplementary appendices of the methodologies used may be necessary if sufficient detail is not included in the thesis to allow repetition of the research.

Taken from University Guidelines for Research Degree Programmes, NUI Galway University