

Research Project (applicable to the MSc only)

Overview

The objective of this module is to enable the students to conduct a research project and prepare a scientific paper for publication in a peer reviewed journal. Students are given guidance and supervision from a distance in the following: deriving a suitable hypothesis to base the research project; writing a critical literature review; designing the appropriate study with experimental and statistical details; costing the project and conducting experiments; managing the project to obtain relevant data; documenting and analysis of results to achieve a conclusion; selecting an appropriate scientific journal to publish the findings; and preparing a paper for publication according to author guidelines of the selected journal.

Welcome to the project

The Research Project is an optional component of the Veterinary Epidemiology and Public Health programme and the Livestock Health and Production programme of the Royal Veterinary College. The research project is the equivalent of an optional course and may be one of the four choices you add to the three core courses in your selected MSc programme.

We strongly recommend that you complete the optional course Research Design, Management and Grant Application Writing before undertaking a research project as part of your MSc.

In choosing to carry out a research project you take the opportunity to conduct an investigation on a subject of your own choice, within the topics of the MSc. This option will provide an important, qualitatively different addition to your academic experience as a postgraduate student.

The overall objectives of the project are:

- to introduce you to methods of scientific investigation
- to train you in the critical evaluation of the scientific literature
- to enable you to acquire experience in the preparation of a scientific report

The meaning of research

knowledge. But there can be different definitions based on the purpose and type of research. For example, basic research, applied research, market research and research for development all involve different tools and methods. Laboratory-based research requires specific reagents, technology and machinery, whereas applied research may require field

The importance of conducting a research project as part of the MSc programme is to train you as an independent researcher. As a final outcome you will be able to prepare a scientific paper for publication in a peer-reviewed journal. From a wider perspective, the experience you gain from this part of the programme will equip you with the skills to undertake further research projects at your own workplace and/or within your own country.

What will you learn from your research project?

By the end of this project you should be able to:

- form a suitable hypothesis on which to base a research project
- write a critical literature review
- design an appropriate study with experimental and statistical details
- cost a project and conduct experiments
- manage a project in order to obtain relevant data
- document and analyse the results to achieve a conclusion
- select an appropriate scientific journal to publish the findings
- prepare a paper for publication according to the author guidelines of the selected journal.

Project structure

Once you have received approval of your project outline from the Programme Director, you can proceed with the work, which can be divided into the following three main phases:

Phase 1: Preparing the Research Proposal

In this first stage you will select the research question, based on the feasibility of completing the project within the time and budget available to you. Having determined your research question, you will then undertake a preliminary literature review as part of the process of drafting a project plan with timelines and specified research methods. You will then submit this draft proposal to the Programme Director for approval.

Phase 2: Conducting the Research

Once your proposal is approved, you will carry out your study based on the project plan that has been agreed. You are expected to monitor your progress against the plan and there will be a mid-term evaluation to check that you are on track.

Phase 3: Report Writing and Submission

In the final stage you will prepare your report and submit it for evaluation, with your full literature review. You should select a journal for publication of the scientific report as a technical paper.

Before your report can be submitted to any scientific journal for publication, the work must be discussed and draft manuscripts lodged for scrutiny and approval with your supervisor(s), who will have the right to veto submission. Undertaking a research project under supervision implies acceptance of these conditions.

Calendar and planning