



<h1>Module Specification</h1>	 UNIVERSITY OF LONDON INTERNATIONAL PROGRAMMES	LONDON SCHOOL of HYGIENE & TROPICAL MEDICINE 
GENERAL INFORMATION		
Module name	Research Design, Management and Analysis	
Module code	IDM601	
Module Organiser(s)	Prof John Ackers	
Contact email	<p>The LSHTM distance learning courses and modules are run in collaboration with the University of London International Programmes. Enquiries may be made via their Student Advice Centre at: http://www.londoninternational.ac.uk/contact-us.</p> <p>(Enquiries from face-to-face i.e. London-based LSHTM MSc or research students regarding study of DL modules should be emailed to distance@lshtm.ac.uk.)</p>	
Home Faculty	Faculty of Infectious & Tropical Diseases London School of Hygiene & Tropical Medicine http://www.lshtm.ac.uk/itd/	
Level	This module is at Level 7 (postgraduate Masters 'M' level) of the QAA Framework for Higher Education Qualifications in England, Wales & Northern Ireland (FHEQ)	
Credit	LSHTM award 15 credits on successful completion of this module	
Accreditation	Not currently accredited by any other body	
Keywords	Research methods, infectious diseases, grant applications	
AIMS, OBJECTIVES AND AUDIENCE		
Overall aim	The aim of this module is to enable students to develop and understand research projects and to give guidance to those of you who are carrying out a project as part of their MSc degree.	
Intended learning outcomes	<p>By the end of this module, students should be able to:</p> <ul style="list-style-type: none"> • formulate a research question, • perform a literature review, • prepare a study protocol, • identify strengths and weaknesses in research proposals, • anticipate and manage problems in the evolution of research projects, • present and disseminate research results effectively, • organise your MSc dissertation, • apply experimental approaches to the study of infections, • use social sciences methods in the study of infectious diseases, • explain how different approaches and study designs can be used and combined. 	

Target audience	Students starting research projects in the field of infectious diseases and it is particularly recommended for those students who wish to register for the IDM600 Project Option.
CONTENT	
Session content	<p>The module includes sections addressing the following topics:</p> <p>Section 1 An overview of research This first section is designed to give you insights into the philosophy of research, framing the actual research question, literature reviews and the ethical conduct of research.</p> <p>Section 2 Planning and managing research The six sessions which comprise Section 2 are designed to help students think through different elements of a study and how to bring them together into a study protocol.</p> <p>Section 3 Reporting research Section 3 introduces the writing skills needed by those engaged in research. The two sessions explain the purpose and structure of a research report, the second is an exercise in writing the outline of a paper.</p> <p>Section 4 Experimental approaches to the study of infection Section 4 illustrates how laboratory research contributes to the understanding of infectious disease. The section takes HIV infection and AIDS as the paradigm for study, and looks at and reviews scientific papers which are considered to be milestones in the progress of HIV research.</p> <p>Section 5 Social science methods and the study of infection Section 5 comprises 11 sessions that aim to introduce students to social science research methods and demonstrate how they can be used to help understand transmission and control of infectious diseases and to improve programs and control activities. The section also aims to provide students with skills in interpreting and evaluation social science research.</p>
TEACHING, LEARNING AND ASSESSMENT	
Study resources provided or required	<p>The following materials are provided to students after registration for this module once a year in September:</p> <p>Study Guide: Paper version, plus 2 sessions on an Interactive CD-ROM.</p> <p>Reader: Reprints of associated journal articles.</p> <p>Textbooks:</p> <ul style="list-style-type: none"> • Huth, E.J., (1999). <i>Writing and publishing in Medicine</i>. 3rd Ed. Lippincott Williams & Wilkins. ISBN: 0683404474 • Smith, P.G., & Morrow, R.H., (1996). <i>Field Trials of Health Interventions in Developing Countries – A toolbox</i>. 2nd ed. ISBN: 0333640586 • Green, J., & Thorogood, N., (2013). <i>Qualitative Methods for Health Research</i>. 3rd Ed., Sage. ISBN: 978-1446253090. • Goering, R., et al (2007) <i>Medical Microbiology</i>. 4th Ed. Mosby. ISBN: 978-0323044752. <p>In addition to the materials above, students are given access to the LSHTM Virtual Learning Environment, Moodle (for web-based discussion forums etc.) and the LSHTM online library resources.</p> <p>Audio-recordings of on-campus lectures are not available for this module.</p>

Teaching and learning methods	Learning is self-directed against a detailed set of learning objectives using the materials provided. Students are strongly encouraged to participate in the module-specific discussion forums available on Moodle to obtain tutor support, and to make use of LSHTM online library resources. In addition, written feedback is provided on submitted assignments.
Assessment details	Formal assessment of this module includes a two-hour unseen written paper examination with 15 minutes' additional reading/planning time (70%) and an assessed assignment comprising a 2500 word research protocol for an infectious disease project (30%). If students fail the module overall, they are allowed one further attempt at the failed element (examination and/or assignment).
Assessment dates	Assignments for this module can be submitted once annually, no later than 31 st March and must be submitted via the online Assignment Management System. Unseen written examinations for DL modules are held once a year, in June (including resits). Examinations are normally held in a student's country of residence, in one of over 650 examination centres worldwide. They are arranged mainly through Ministries of Education or the British Council. A list of examination centres can be found at http://www.londoninternational.ac.uk/community-support-resources/current-students/examinations/examination-centres . A local fee will be payable direct to the examination centre. This fee is in addition to the course/module fee and is set by, and paid directly to, the individual examination centres. The level of local examination centre fees varies across the world and neither the University of London International Programmes nor the LSHTM have any control over the fee amount.
Language of study and assessment	English (please see 'English language requirements' below regarding the standard required for entry).
TIMING AND MODE OF STUDY	
Duration	Distance learning module studies begin in early October. Students may start their studies at any time from receipt of study materials and work through the material until the start of the June examinations (although assessment submission deadlines which are earlier than this must be observed).
Dates	Tutorial support for distance learning modules is available from the beginning of October through to the end of May.
Mode of Study	By distance learning.
Learning time	The notional learning time for the module totals 150 hours, consisting of: <ul style="list-style-type: none"> • Directed self-study (reading and working through the provided module material) ≈ 100 hours • Self-directed learning (general reading around the subject, library, Moodle discussion forums) ≈ 25 hours • Assessment, review and revision ≈25 hours
APPLICATION, ADMISSION AND FEES	
Pre-requisites	Those wishing to study this module must have regular access to the internet to participate in module-specific discussions on Moodle, benefit from online library facilities and submit assignments.

English language requirements	A strong command of the English language is necessary to benefit from studying the module. Applicants whose first language is not English or whose prior university studies have not been conducted wholly in English must fulfil LSHTM's English language requirements , with an acceptable score in an approved test taken in the two years prior to entry. Applicants may be asked to take a test even if the standard conditions have been met.
Student numbers	There is no cap on the number of students who can register for this distance learning module. The number of students actively studying this module varies, but typically approx. 25 students register for the module per year.
Student selection	This module is available to be studied by students on the MSc or PG Diploma Infectious Diseases (ID) courses. MSc ID students wishing to take the project option are strongly advised to study this module before starting on their project work. Alternatively, students may register for this as an "individual module". This module is also open to students registered on LSHTM face-to-face (i.e. London-based) MSc courses (subject to course-specific limitations) and research degree students.
Fees	The current schedule of fees can be viewed at http://www.londoninternational.ac.uk/fees (click on the LSHTM course link)
Scholarships	Scholarships are not available for individual modules. Some potential sources of funding are detailed on the LSHTM website.
Admission deadlines	Applications for LSHTM distance learning courses and modules are managed by the University of London International Programmes. To apply to take either a formal award (i.e. PG Certificate, PG Diploma or MSc) or an individual module, click on the relevant link on the right hand side of the page at http://www.londoninternational.ac.uk/courses/postgraduate/lshtm/infectious-diseases-msc-postgraduate-diploma-postgraduate-certificate . Key deadlines are as follows: <ul style="list-style-type: none"> • If taken as part of a formal award (i.e. PG Certificate, PG Diploma or MSc): <ul style="list-style-type: none"> ➢ Application deadline: 31 August each year ➢ Registration deadline 30 September each year (<i>continuing students may register until 31 October but are strongly recommended to register before this deadline because the study year starts beginning of October</i>) • If taken as an individual module: <ul style="list-style-type: none"> ➢ Application deadline: 31 August each year ➢ Registration deadline: 31 October each year (In-house LSHTM MSc and research students wishing to study this module should note information given in the mixed mode study option links, for MSc students at http://www.lshtm.ac.uk/edu/taughtcourses/handbooks_regs_pols/msc_mixed_modeinformation.pdf , and for DrPH/research degree students at http://intra.lshtm.ac.uk/edu/researchdegrees/rdsupportframework/profdev/rd_mixedmodeinformation.pdf .)
ABOUT THIS DOCUMENT	
This module specification applies for the academic year 2017/18.	
Last revised/approved by John Ackers 1/7/16; further revisions M. Bridge 1/7/16	
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