MODULE SPECIFICATION

Academic Year (student cohort covered by specification)	2023-24
Module Code	3130
Module Title	Mycology
Module Organiser(s)	Victoria Miari & Astrid Leck
Faculty	Infectious & Tropical Diseases
FHEQ Level	Level 7
Credit Value	**CATS:** 15 **ECTS:** 7.5
HECoS Code	100265:100345 (1:1)
Term of Delivery	Term 3
Mode of Delivery	For 2023-24 this module will be delivered by predominantly face-to-face teaching modes. Where specific teaching methods (lectures, seminars, discussion groups) are noted in this module specification these will be delivered by predominantly face-to-face sessions. There will be a combination of live and interactive activities (synchronous learning) as well as recorded or self-directed study (asynchronous learning), plus face-to-face laboratory classes.
Mode of Study	Full-time
Language of Study	English
Pre-Requisites	None
Accreditation by Professional Statutory and Regulatory Body	None
Module Cap (Indicative number of students)	20-24 (numbers may be capped due to limitations in facilities or staffing)
Target Audience	This module is intended for microbiologists, parasitologists, immunologists and clinicians. No prior knowledge of mycology is required.

Module Description	This module explores superficial / cutaneous, subcutaneous and systemic fungal infections of humans. The identification of causative organisms is covered in lectures and forms the content of the practical classes alongside histopathology and non-culture diagnostic tests. Lectures also cover epidemiology, diseases, diagnosis and treatment aspects. Approximately 50 fungi are covered in the module, including mould and yeast species.
Duration	5 weeks at 2.5 days per week
Timetabling slot	Slot E
Last Revised (e.g. year changes approved)	July 2022

Programme(s) This module is linked to the following programme(s)	**Status**
MSc Medical Microbiology	Recommended Option
MSc Immunology of Infectious Diseases	Recommended Option
MSc Tropical Medicine & International Health	Recommended Option

Module Aim and Intended Learning Outcomes

Overall aim of the module
The overall module aim is to: • Examine the major aspects of human fungal infections and how to identify fungal pathogens.

Module Intended Learning Outcomes
Upon successful completion of the module a student will be able to: 1. Describe the basic structure and classification of pathogenic fungi; 2. Demonstrate knowledge and understanding of the pathogenesis of various mycoses, including clinical manifestations, diagnosis and management; 3. Apply relevant identification techniques and skills applicable to a clinical laboratory setting for clinically relevant moulds and yeasts.

Indicative Syllabus

Session Content
The module is expected to cover the following topics: • The morphology and taxonomy of pathogenic fungi; • The mycoses - superficial and cutaneous, subcutaneous, and systemic; • Virulence factors, immunology, aspects of treatment.

Teaching and Learning

Notional Learning Hours

Type of Learning Time	Number of Hours	Expressed as Percentage (%)
Contact time	62	41
Directed self-study	0	0
Self-directed learning	43	29
Assessment, review and revision	45	30
Total	**150**	**100**

Student contact time refers to the tutor-mediated time allocated to teaching, provision of guidance and feedback to students. This time includes activities that take place in face-to-face contexts such as lectures, seminars, demonstrations, tutorials, supervised laboratory workshops, practical classes, project supervision as well as where tutors are available for one-to-one discussions and interaction by email.

The division of notional learning hours listed above is indicative and is designed to inform students as to the relative split between interactive and self-directed study.

Teaching and Learning Strategy
Lectures and tutorials provide background information on each type of fungal infection / disease and introduce diagnostic laboratory methods used to identify pathogenic fungi. Practical classes enable students to develop skills to identify fungi and to learn how to use their knowledge of the diseases and fungi to aid in the interpretation of laboratory test results. The practical sessions are considered essential to develop the skills needed to take the practical based exam.

Assessment

Assessment Strategy
The assessment for this module has been designed to measure student learning against the module intended learning outcomes (ILOs) as listed above. Formative assessment methods may be used to measure students' progress. The grade for summative assessment(s) only will go towards the overall award GPA. The practical assessment for this module will be on-campus at LSHTM. Other assessments will be online. This course provides theoretical knowledge of fungal infections and practical skills to identify fungi in a laboratory, therefore the assessment tests both aspects. • The coursework essay tests the understanding of pathogenic fungi in terms of epidemiology, diagnosis, how infections are managed and treated and why fungal diseases pose an important threat to public health. It is representative of the lectures that will be covered for a range of medically important filamentous fungi and yeasts and it will provide an opportunity for the individual to explore key pathogens in greater depth. • The practical assessment tests the practical skills and understanding of identification keys and methods, which when combined lead to an identification result. However, it also requires knowledge and understanding of the clinical aspects of fungal infection which might be characteristic of a particular fungus or disease type. Many of the exam questions include clinical information.

Summative Assessment

Assessment Type	**Assessment Length (i.e. Word Count, Length of presentation in minutes)**	**Weighting** (%)	**Intended Module Learning Outcomes Tested**
Coursework	2000-2500 words	50	1,2
Practical	2 hours / 15 questions	50	1,2,3

Resitting assessment
Resits will accord with the LSHTM's Resits Policy The resit assessment will be the same assessment type as the first attempt (see previous table). The essay will be in exactly the same format, but on a new topic. The practical exam will follow the same format but consist of different questions.

Resources

Indicative reading list
Course textbook: Identification of Pathogenic Fungi by CK Campbell *et al*.
Mycology textbooks available in the LSHTM library
Journals: Medical Mycology, Journal of Clinical Microbiology, Clinical Microbiology Reviews, etc.

Other resources
The Mycology online website is excellent and is curated by expert mycologists:_
https://mycology.adelaide.edu.au/

Teaching for Disabilities and Learning Differences

The module-specific site on Moodle gives students access to PDFs of the PPT presentations used during lectures. Where appropriate, lectures are recorded and made available on Moodle. All materials posted on Moodle, including computer-based sessions, have been made accessible where possible.

LSHTM Moodle is accessible to the widest possible audience, regardless of specific needs or disabilities. More detail can be found in the Moodle Accessibility Statement which can also be found within the footer of the Moodle pages. All students have access to "SensusAccess" software which allows conversion of files into alternative formats.

Student Support Services can arrange learning or assessment adjustments for students where needed. Details and how to request support can be found on the LSHTM Disability Support pages.