**Programme Inspection Proforma**



# **For**

# **M.Phil Medical Microbiology**

# **UNIVERSITY OF HEALTH SCIENCES, LAHORE**

**LAUNCHING MPHIL PROGRAM IN DIFFERENT INSTITUTES IN PUNJAB**

**MPhil Medical Microbiology**

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| **Serial No** | **Parameter** | **Required** | **Actual** |
| 1 | Ownership | Federal/Provincial or Local Government Institute.  An autonomous body promoted by Federal/ Provincial or Local Government by or under a statute for the purpose of post-graduate medical education.  A public or private charitable trust registered under the related act. |  |
| 2 | Teaching Hospital and Diagnostic services | Independent or Hospital based laboratory having a workload of at least 50 microbiology tests requests.  In addition, there should be adequate number (250-300) of investigations in other specialties *viz* Chemical Path, Hematology, Serology especially infectious serology and Histopathology. Clinical Pathology services for parasitology and routine Urine examination. |  |
| 3 | Area of the premises |  |  |
| 4 | Possession of land |  |  |
| 5 | Working Capital |  |  |
| 6 | Auditorium | An auditorium with a minimum seating capacity of 100 participants. Audio-visual facilities should be commensurate with the total capacity. |  |
| 7 | Lecture Hall | A lecture Hall with a seating capacity of 30 participants. Audio-visual facilities should be commensurate with the total capacity. |  |
| 8 | Library | A library with a seating capacity for 20 scholars. |  |
| 9 | Demonstration/Tutorial Room | A separate demonstration room for all specialties to be made available. |  |
| 10 | Microbiology Laboratory | A dedicated microbiology laboratory for doing the clinical work. |  |
| 11 | Phlebotomy & Specimen Reception | Equipped with a computer |  |
| 12 | Offices for doctors | Equipped with a computer with internet access |  |
| 13 | A dedicated cubicle for each MPhil scholar | Equipped with a computer for each scholar with internet access |  |

**ADMINISTRATIVE STAFF – ESSENTIAL**

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| **Serial No** | **Categories of Staff** | **Required No** | **Qualifications and Responsibilities** | **Actual/Observed** |
| 1 | Program Director | 1 | Professor or Associate Professor of Microbiology |  |
| 2 | Administrative Officer | 1 | Graduate (4 years program)  Computer literate with 2 years’ experience |  |
| 3 | Librarian | 1 | Graduate in Library Science from an accredited University  Computer Literate  One year experience |  |
| 4 | Software Engineer | 1 | Graduate in Computer Sciences  Good knowledge of English  One year experience |  |
| 5 | Peon/Aya | 2 | Matric |  |
| 6 | Cleaners | 1 |  |  |
| 7 | Security Guards | 1 | Ex-Army OR or NCO |  |

**TEACHING STAFF – FACULTY**

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| **Designation** | **Requirements/**  **Qualifications** | **Available** | **Deficiency** | **Names with Qualifications** | **No. of MPhil Produced** | Publications in **last three years** |
| Professor or Associate Professor of Microbiology | MBBS with PhD, FCPS, MPhil, FRCPath, D(ABMM) or equivalent |  |  |  |  |  |
| Assistant Professor of Microbiology | MBBS with PhD, FCPS, MPhil, FRCPath, D(ABMM) or equivalent |  |  |  |  |  |
| Senior Demonstrator (Microbiology) | MBBS and having attended and passed the theory examination for MPhil (Microbiology), pending defense of thesis. |  |  |  |  |  |
| Professor/Associate Professor/Assistant Professor of Histopathology | MBBS with PhD, FCPS, MPhil, FRCPath, DABP AP/CP or equivalent |  |  |  |  |  |
| Professor/Associate Professor/Assistant Professor of Chem Pathology | MBBS with PhD, FCPS, MPhil, FRCPath, D(ABCC) or equivalent |  |  |  |  |  |
| Professor/Associate Professor/Assistant Professor of Hematology | MBBS with PhD, FCPS, MPhil, FRCPath, DABP (Hematopathology) or equivalent |  |  |  |  |  |
| Laboratory Manager | MSc (MLT) or Graduate (4 years program) with 2 years’ experience |  |  |  |  |  |
| Laboratory Technologists (02) | Graduate (4 years program) |  |  |  |  |  |
| Computer Education | Bachelor of Computer Sciences |  |  |  |  |  |
| Biostatistics & Research Methodology | MSc (Biostatistics) or MPH |  |  |  |  |  |

**EQUIPMENT**

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| **Name** | **Minimum Required** | **Deficiency** | **Remarks Working/ Not Working** |
| Safety Cabinet | 1 |  |  |
| Incubator 37˚C Large | 1 |  |  |
| Incubator 37˚C CO2 Large | 1 |  |  |
| Incubator 37˚C Small | 1 Optional |  |  |
| Incubator 22-30˚C | 1 Optional |  |  |
| Hot Air Oven | 1 |  |  |
| Autoclave | 1 |  |  |
| Binocular Microscopes | 2 |  |  |
| BACTEC 9120 Blood Culture System or equivalent | 1(Optional) |  |  |
| BACTEC 960 MGIT TB culture System | 1 (Optional) |  |  |
| Anaerobic Jars with Gas Generating Kits | 5 |  |  |
| Electronic Balance | 1 |  |  |
| Pipettes (Different sizes) | One each |  |  |
| Glass ware (as and when required) |  |  |  |
| Staining Jars and Racks for Gram Staining and ZN Staining | One set each |  |  |
| Culture Media and other reagents (as and when required) |  |  |  |

Other departments’ laboratories and equipment will be used for minor subjects training.

**RECOMMENDED BOOKS**

1. Topley & Wilson Medical Microbiology
2. Jawetz, Melnick and Adelberg’s Medical Microbiology 25th Edition
3. Greenwood’s Medical Microbiology 18th Edition
4. Clinical Microbiology Procedures Handbook (Vol I, II & III) 3rd Edition
5. Manual of Clinical Microbiology (MCM) 10th Edition
6. Koneman’s Textbook & Atlas of Diagnostic Microbiology 7th Edition
7. Mandell, Douglas, and Bennett’s Principles And Practice of Infectious Diseases 7th Edition
8. Monica Cheesbrough District Laboratory Practice in Tropical Countries Part I & II.
9. Bailey & Scott’s Diagnostic Microbiology 14th Edition
10. Macky & MacCartney Practical Medical Microbiology 14th Edition
11. Levinson’s Review of Medical Microbiology 11th Edition
12. Clinical Laboratory Standards Institute Document M-100 2013
13. Markell And Voge's Medical Parasitology 9th Edition
14. Lynne Garcia’s Diagnostic Parasitology 2nd Edition
15. Medically Important Fungi: A Guide to Identification
16. Arie J Zuckerman’s Principles and Practice of Clinical Virology / Edition 6