**Programme Inspection Proforma**



# **For**

# **M.Phil IMMUNOLOGY**

# **UNIVERSITY OF HEALTH SCIENCES, LAHORE**

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

**MPhil IMMUNOLOGY**

**LEGAL REQUIREMENTS**

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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 Immnunology laboratory.  In addition, there should be adequate number of investigations in other specialties *viz* Chemical Path, Hematology, Serology especially infectious serology and Histopathology. |  |
| 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 | Immunology Laboratory | A dedicated Immunology 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 MPhil scholars | Equipped with a computer and 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 Immunology |  |
| 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 Immunology | MBBS with PhD, FCPS, MPhil, FRCPath, or equivalent |  |  |  |  |  |
| Assistant Professor of Immunology | MBBS with PhD, FCPS, MPhil, FRCPath, or equivalent |  |  |  |  |  |
| Senior Demonstrator (Immunolog) | MBBS and having attended and passed the theory examination for MPhil (Immunology), 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 |  |  |  |  |  |
| Professor/Associate Professor/Assistant Professor of Microbiology | MBBS with PhD, FCPS, MPhil, FRCPath, DABP (Microbiology) 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 | Institutional level |  |  |  |  |
| Biostatistics & Research Methodology | MSc (Biostatistics) or MPH | Institutional level |  |  |  |  |

**EQUIPMENT**

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| **Name** | **Minimum Required** | **Deficiency** | **Remarks Working/ Not Working** |
| Safety Cabinet | 1 |  |  |
| Incubator 37˚C Large | 1 |  |  |
| Incubator 37˚C Small | 1 Optional |  |  |
| Incubator 22-30˚C | 1 Optional |  |  |
| Hot Air Oven | 1 |  |  |
| Autoclave | 1 |  |  |
| Binocular Microscopes | 2 |  |  |
| ELISA System | 1 |  |  |
| PCR and Gel documentation system | 1 (Optional) |  |  |
| Flowcytometer | 1 (Optional) |  |  |
| Electronic Balance | 1 |  |  |
| Pipettes (Different sizes) | One each |  |  |
| Glass ware (as and when required) |  |  |  |

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

**RECOMMENDED BOOKS**

1. Clinical immunology by Robert R. Rich, Thomas A. Fleisher –4th edition Mosby elsevier
2. Essentials of Clinical Immunology by siraj misbah (blackwell science- 4th edition )
3. Handbook of Human Immunology, (Second Edition by Maurice R. G. O’Gorman, CRC press)
4. Fundamental Immunology by Paul, William E. Lippincott Williams & Wilkins Latest Edition
5. Atlas of Immunology, Third Edition by Julius M. Cruse, CRC press
6. Geha Case Studies in Immunology Clinical Companion 6th Edition, 2012
7. Medical Immunology Latest Edition Edition by Gabriel Virell Medical University of South Carolina Charleston, South Carolina)[How the immune system works, by Lauren Sompayrac](http://www.blacksci.co.uk/~cgilib/bookpage.bin?File=5702). Blackwell Science
8. Immunology, by William L. Anderson. Fence Creek Publishing (Blackwell).
9. [Basic immunology by Jacqueline Sharon](http://www.wwilkins.com/). Williams and Wilkins, Baltimore MD. Latest Edition
10. [Kuby Immunology](http://www.whfreeman.com/kuby). W. H. Freeman & Co. Latest Edition
11. [Cellular and molecular immunology, by Abul Abbas, Andrew Lichtman, and Jordan Pober](http://www.harcourthealth.com/). W. B. Saunders. The fourth edition was published in 2000. Latest Edition.
12. [Immunobiology - the immune system in health and disease, by Charles Janeway, Jr. and Paul Travers.](http://www.garlandscience.com/) Latest Edition..
13. [Immunology by Ivan Roitt, Jonathan Brostoff, and David Male](http://www.mosby.com/). Mosby, London. Latest Edition.