**Programme Inspection Proforma**


# **For**

# **M.Phil Chemical Pathology**

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# **UNIVERSITY OF HEALTH SCIENCES, LAHORE**

**LEGAL REQUIREMENTS**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sr. #** | **PARAMETER**  | **REQUIRED**  | **ACTUAL / OBSERVED**  |
| 1 | Ownership  | Institution can vest ini. a body corporate registered under the relevant laws of companies ordinance / societies / trust.ii. Federal/ Provincial or Local Government1. A Pakistani University seeking affiliation for Medical/ Dental/Allied Health sciences courses

iv. An autonomous body promoted by Federal/provincial/local government by or under a statute for the purpose of nursing education;v. A public or private charitable trust registered under the related act. |  |
| 2 | Teaching Hospital  | Independent or Hospital based Radiology having workload of minimum 1000 laboratory tests per day as a total including different departments, chemistry, hematology, immunology, microbiology, histopathology and molecular biology.Participation of Lab in internal and external quality assurance programmes. |  |
| 3 | Area of Premises  | Minimum 1 acre |  |
| 5 | Ownership / Possession of Land  | Ownership / Lease of 33 years  |  |

**FINANCIAL STATUS AND SUSTAINABILITY**

|  |  |  |  |
| --- | --- | --- | --- |
| **S #** | **PARAMETER**  | **REQUIRED**  | **ACTUAL / OBSERVED**  |
| 1 | Working Capital  | Min. Rupees 2.5 Million (For Private Institution) |  |

**COMMON FACILITIES**

**“INFRASTRUCTURE”**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **PARAMETER**  | **CAPACITY**  | **ACTUAL / OBSERVED**  | **AREA PER PERSON**  | **MIN. AREA**  | **ACTUAL / OBSERVED**  |
| Auditorium  | (1) 300 capacity  |  | 10 sqft/person  | 1000 sqft  |  |
| Lecturer Hall  | (2) 50 capacity  |  | 10 sqft/person  | 600 sqft  |  |
| Library  | (1) 50 capacity  |  | 20 sqft/person  | 1000 sqft  |  |
| Common Room for girls  |  |  | Lump sum  | 1000 sqft  |  |
| Cafeteria  |  |  | Lump sum  | 1000 s qft  |  |
| Tutorial (x4) | 25 capacity  |  | 10 sqft/person | 1000 sqft |  |
| Main Laboratory with four - six sections | 25 capacity  |  | Lump sum  | 2000 sqft  |  |
| Phlebotomy Area | Two sectionsMale/Female |  | Lump sum | 200 sqft |  |
| Offices (x4) | 200 sqft  |  |  | 1000 sqft |  |
| TOTAL  | 10,800 sqft |  |

**OTHERS**

|  |  |  |  |
| --- | --- | --- | --- |
| **S #** | **PARAMETER**  | **REQUIRED**  | **ACTUAL / OBSERVED**  |
| 1 | Library  | Minimum 2 copies of Text Books of all four major disciplines of Pathology  |  |
| Minimum 2 sets of at least 5 reference Books   |
| Facility of E-books and journals |
| 2 | Internet / Computer Labs  | Minimum ratio of 01 computer per 2-3 students on roll  |  |

**ADMINISTRATIVE STAFF – ESSENTIAL**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S.#** | **Categories of staff** | **Req No.** | **Qualification and responsibility** | **Actual / Observed**  |
| 1 | Program director  | 1 | * Faculty member
* (Professor, Associate Professor, Assistant Professor)
 |  |
| 2. | Librarian | 1 | * Graduate in library Science and Computer literate.
* B.Sc.
 |  |
| 3. | Administrative officer /Computer technician/operator/typist | 1 | * Diploma in computer
* Fluent in language
 |  |
| 4. | BioStatistician | 1 | M.S.C BiostatisticsMin two years experience |  |
| 5. | Peon | 2 | - Matric |  |
| 6. | Security guards | 1 | - Matric |  |
| 7. | Cleaners | 1 | -  |  |

**TEACHING STAFF – FACULTY**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Designation**  | **Requirements/Qualifications** | **Available**  | **Deficiency**  | **Names with Qualifications** |
| Professor or Associate Professor of Chemical Pathology | MBBS with PhD, FCPS, MPhil, FRCPath, D(ABCC) or equivalent |  |  |  |
| Assistant Professor of Chemical Pathology | MBBS with PhD, FCPS, MPhil, FRCPath, D(ABCC) or equivalent |  |  |  |
| Senior Demonstrator (Chemical Pathology) | 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 Microbiology | MBBS with PhD, FCPS, MPhil, FRCPath, D(ABMM) 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 |  |  |  |

**PART III**

**EQUIPMENT**

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| **PATHOLOGY(Equipment)** |
|  | **Section** | **Min Required** | **Deficiency** | **Remarks Working/Not working** |
| **CHEMICAL PATHOLOGY** |
|  | Spectrophotometer (visible and UV Range) | 1 |  |  |
|  | Fully Automated Chemistry Analyzer | 1 |  |  |
|  | Electrolyte Analyzer | 1 |  |  |
|  | ABGs Analyzer | 1 |  |  |
|  | Water Bath with stirrer, temperature control and display | 1 |  |  |
|  | Automatic pipette 5ul-10ul  | 2 |  |  |
|  | Automatic pipette 10ul-100ul | 2 |  |  |
|  | Automatic pipette 50-500 ul adjustable | 2 |  |  |
|  | Automated Pipette 100-1000ul | 2 |  |  |
|  | Centrifuges with timer and speed control to hold 06 ordinary test tubes | 2 |  |  |
|  | Centrifuges with timer and speed control to hold at least 30 test tubes | 1 |  |  |
|  | Test Tube Stands | 10 |  |  |
|  | Refrigerator 2-8°C | 1 |  |  |
|  | Water Still | 1 |  |  |
|  | ELISA washer and reader automated with UPS | 1 |  |  |
|  |
|  | Pipette glass(Pyrex) graduated 2 ml | 2 in each section |  |  |
|  | Pipette glass(Pyrex) graduated 5 m1 | 2 in each section |  |  |
|  | Pipette glass(Pyrex) graduated 10 m1 | 2 in each section |  |  |
|  | Glass beaker (Pyrex) 100 ml graduated | 5 in each section |  |  |
|  | Glass beaker (Pyrex) 500 ml graduated | 5 in each section |  |  |
|  | Glass cylinder (Pyrex) 500 ml graduated | 5 in each section |  |  |
|  | Flask conical glass(Pyrex) graduate | 5 in each section |  |  |
|  | - 20 or - 40°C Freezer | At least 1 in Pathology |  |  |

**Recommended Books**

|  |  |  |
| --- | --- | --- |
| **Name** | **Author** | **Available/Not available** |
| Short Text Books of Chemical Pathology (Hodder & Stoughton London)  | Baron  |  |
| Clinical Chemistry and Metabolic Medicine  | Martin a crook  |  |
| Clinical Chemistry  | Michael l. Bishop  |  |
| Tietz Applied Laboratory Medicine  | Mitchell G Scott  |  |
| Clinical Diagnosis by Laboratory Examination (Appleton-Century Crafts Inc. New York).  | Kolmer  |  |
| Clinical Chemistry in Practical Medicine (Livingston, Edinburgh.)  | Stewart and Dunlop  |  |
| Varley’s Practical Clinical Biochemistry  | Alan H Gowaenlock  |  |
| Clinical Chemistry and Molecular Diagnostics  | Norbert W. Teitz  |  |
| Clinical Chemistry  | William J Marshal  |  |
| Henry’s Clinical Diagnosis and Management by Laboratory Methods  | Richard A Mcpherson  |  |