**Programme Inspection Proforma**



# **For**

# **M.Phil Chemical Pathology**

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# **UNIVERSITY OF HEALTH SCIENCES, LAHORE**

**LEGAL REQUIREMENTS**

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| **Sr. #** | **PARAMETER** | **REQUIRED** | **ACTUAL / OBSERVED** |
| 1 | Ownership | Institution can vest in  i. a body corporate registered under the relevant laws of companies ordinance / societies / trust.  ii. Federal/ Provincial or Local Government   1. 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 sections  Male/Female |  | Lump sum | 200 sqft |  |
| Offices (x4) | 200 sqft |  |  | 1000 sqft |  |
| TOTAL | | | | 10,800 sqft |  |

**OTHERS**

|  |  |  |  |
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| **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 Biostatistics  Min 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**

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| **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 |  |