**Programme Inspection Proforma**

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# **For**

# **M. Phil Anatomy**

# **UNIVERSITY OF HEALTH SCIENCES, LAHORE**

**LEGAL REQUIREMENTS**

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| **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 laboratory 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**

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

**COMMON FACILITIES**

**“INFRASTRUCTURE**”

|  |  |  |  |  |  |
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| **PARAMETER**  | **CAPACITY**  | **ACTUAL / OBSERVED**  | **AREA PER PERSON**  | **MIN. AREA**  | **ACTUAL / OBSERVED**  |
| Auditorium  | (1) 300 capacity  |  | 10 sqft/person  | 1000 sqft  |  |
| Lecturer Hall  | (1) 100 capacity  |  | 10 sqft/person  |  1000 sqft  |  |
| Library  | (1) 300 capacity  |  | 10 sqft/person  | 2000 sqft  |  |
| Cafeteria | (1) 100 capacity  |  | 20 sqft/person  | 2000 sqft  |  |
| Examination Hall | (1) 300 capacity  |  | 10 sqft/person  | 1000 sqft  |  |
| Internet / Computer Labs  | (1) 50 Capacity  |  | 10 sqft/person | 500 sqft |  |

**BASIC REQUIREMENTS FOR M.Phil ANATOMY PROGRAMME**

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| **S #** | **PARAMETER** | **REQUIRED** | **SPECIFICATION/CAPACITY** | **AVAILABLE/NOT AVAILABLE**  |
| 1 | **Offices**a) Teaching Staffb) Administrative Staff | a) 5 Minimumb) 2 Minimum |  |  |
| 2 | Seminar/meeting room | 1 | 25 Capacity |  |
| 3 | Refreshment/tea room | 1 | 20 Capacity |  |
| 4 | Library for PG Students | 1 | a) 20 Capacityb) Equipped with at least 3 computers with internet accessc) For two PG students at least one recommended Anatomy/histology/embryology books d) Availability of indexed journals  |  |
| 5 | Basic Anatomy Laboratory | 1 | Optimum space for equipment and researchers with an area not less than 1000 sqft |  |
| 6 | Histology Laboratory | 1 | Optimum space for equipment and researchers with an area not less than 500 sqft |  |
| 7 | Sample Collection/Patient Access |  | A tertiary hospital with minimum of daily 200 outdoor patients |  |
| 8 | Animal Research Facility/Laboratory | 1 | a) Animal House Rooms: 2 min with temperature and humidity monitor b) Office for Veterinary officerc) Designated space for house attendantd) Changing areae) Procedure room with proper OT lightf) 01 Colony breeding roomg) Cage washing areah) Feed preparation/storage roomi) Corridor to accommodate extra cage racks |  |

**ADMINISTRATIVE STAFF – ESSENTIAL**

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| **S.#** | **Categories of staff** | **Req No.** | **Qualification and responsibility** | **Actual / Observed** |
|  | Programme Director | 1 | Faculty member(Professor, Associate Prof/ Assistant Prof) |  |
|  | Librarian | 1 | * Graduate in library Science and Computer literate.
* B.Sc.
 |  |
|  | Administrative officer /Computer technician/operator/typist | 1 | * Diploma in computer
* Fluent in language
 |  |
|  | Curator of Museum | 1 |  |  |
|  | Embalmer | 1 |  |  |
|  | Peon | 2 | - Matric |  |
|  | Security guards | 1 | - Matric |  |
|  | Cleaners | 1 | -  |  |

**TEACHING STAFF – FACULTY**

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| **Designation**  | **Requirements/Qualifications** | **Available**  | **Deficiency**  | **Names with Qualifications/PMDC reg-No** | **No. of M.Phil. Produced** | **Publications in last 3 years** |
| Professor of Anatomy | **(2)**MBBS with PhD, FCPS, MPhil  |  |  |  |  |  |
| /Associate Professor | **(2)**MBBS with PhD, FCPS, MPhil,\  |  |  |  |  |  |
| Assistant Professor  | MBBS with PhD, FCPS, MPhil,  |  |  |  |  |  |
| Teaching &Research Fellow  | (2) MBBS with MPhil,  |  |  |  |  |  |
| Laboratory Manager | (1)MSc (MLT) or Graduate (4 years program) with 2 years’ experience |  |  |  |  |  |
| Laboratory Technologists (02) | (1)Graduate (4 years program) |  |  |  |  |  |
| Computer Education | (1)Bachelor of Computer Sciences |  |  |  |  |  |
| Biostatistics & Research Methodology | (1)MSc (Biostatistics) or MPH |  |  |  |  |  |
| Veterinary Officer | (1) Bachelor in Veterinary Medicine |  |  |  |  |  |

**PART III**

**EQUIPMENT**

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| Anatomy (Equipment) |
|  | **Description** | **Min Required** | **Available** | **Deficiency** | **Remarks****working/ Not working** |
| Anatomy |
| **1** | Dissection Hall | 1 |  |  |  |
| **2** | Mortuary Refrigerator for 6 capacity of human corpse | 2 |  |  |  |
| **3** | Cadavers | 2 |  |  |  |
| **4** | Cadaver Tables | 4 |  |  |  |
| **5** | Appropriate dissecting instruments for 2 cadaver | 10 Sets |  |  |  |
| **6** | Bone Cutting Saw |  |  |  |  |
| **7** | Stools | 50 |  |  |  |
| **8** | Binocular microscopes |  |  |  |  |
| **9** | Research microscope (BF,FL,DIC, PH, POL, FL-PH, FL-DIC ) |  |  |  |  |
| **10** | Stereomicroscopes |  |  |  |  |
| **11** | Tissue processor |  |  |  |  |
| **12** | Microtome(Rotary) |  |  |  |  |
| **13** | Microtome (automated) |  |  |  |  |
| **14** | Micrometer (linear) |  |  |  |  |
| **15** | Micrometer (stage) |  |  |  |  |
| **16** | Embedding Station |  |  |  |  |
| **17** | Crayostate  |  |  |  |  |
| **18** | Squenza Manual work station  |  |  |  |  |
| **19** | Egg incubator |  |  |  |  |
| **20** | Weighing Balance |  |  |  |  |
| **21** | Operation Room  |  |  |  |  |
| **22** | Operation Instruments and Anesthesia Requirements  |  |  |  |  |

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| **HISTOLOGY LABORATORY** |
|  | **Description** | **Min Required** | **Available** | **Deficiency** | **Remarks****working/ Not working** |
| **1** | Research Microscopes | 2 |  |  |  |
| **2** | Refrigerator Large | 3 |  |  |  |
| **3** | Computer with internet facility | 5 |  |  |  |
| **4** | Scanner | 1 |  |  |  |
| **5** | Color Laser Printer | 1 |  |  |  |
| **6** | Laser Printer | 2 |  |  |  |
| **7** | Stools | 30 |  |  |  |
| **ANATOMY MUSEUM** |
| **A. Models** |
| **1** | Torso | 1 |  |  |  |
| **2** | Upper Limb | 1 |  |  |  |
| **3** | Lower Limb | 1 |  |  |  |
| **4** | Head & Neck | 1 |  |  |  |
| **5** | Special Senses | 1 |  |  |  |
| **6** | Brain | 1 |  |  |  |
| **7** | Histology models-Every System. | 1 |  |  |  |
| **8** | Embryology Models-Every System | 1 |  |  |  |
| **9** | Loose Bones (Human) | Three complete sets of bones |  |  |  |
| **10** | Articulated Skeleton | 2 |  |  |  |
| **11** | Articulated Vertebral Column | 1 |  |  |  |
| **12** | Anatomical Charts-Every System | 1 |  |  |  |
| **13** | **Cross sectional profile of the whole body** | 1 |  |  |  |
| **14** | ANATOMY CDS | Any no. |  |  |  |
| **15** | Histology Slides set | 3 |  |  |  |
| **16** | Embryology Slides Set | 1 |  |  |  |
| **17** | Neuro-anatomy Slides  | 1 |  |  |  |

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| **TEACHING AIDS** |
| **18** | A) Overhead projector | 1 |  |  |  |
| **19** | B) Multimedia | 1 |  |  |  |
| **20** | C) White Boards | 3 |  |  |  |
| **21** | D) Projection Microscope / Fascam | 1 |  |  |  |

**Recommended Books/Journals**

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| **Name** | **Edition** | **Quantity** |
| Last Anatomy Regional and applied | RMH McMinn (Churchill Living stone) |  |
| Clinically Oriented Anatomy | Keith L. Moore (Lippincott, William and Wilkins ) |  |
| Gray’s anatomy | William Et Al (Churchill Living stone) |  |
| The developing Human | Keith L. Moore (saunders0 |  |
| Medical Embryology | Jan Langman (William and Wilkins) |  |
| Baily’s text book | Wilfred M. (coopenhaver, Kelly wood) |  |
| Functional histology | Bringer (Little brown and Co) |  |
| Histology: A text and an atlas | B. Young & H. Heath (Churchill Living stone) |  |
| Genetics in medicine | J.S Thompson & W.B Sauders (M.W. Thompson) |  |
| Human Neuroanatomy  | J. Stuin & M.B Carpenter(William and Wilkins) |  |
| Clinical Neuroanatomy | Richard S. Snell (William and Wilkins) |  |
| Histochemistry theoretical and applied | Anthony Guy Everson. Pearse (Churchill Living stone) |  |
| Histopathologistic tecnic and Prac. Histochemistry | Ralph Dougall, Lillie |  |
| Biological Micro technique | Sanderson J (1994) |  |
| **Journals** |
| British Journal of Anatomy |  |
| American Journal of anatomy |  |
| Journal of Altrastructural Research |  |
| Anatomical records |  |
| Acta Anatomica |  |
| Journal of Medical Genetics |  |