



# **INITIAL RECOGNITION FRAMEWORK (Criteria)**

**FOR MEDICAL  
AND DENTAL SCHOOLS  
IN PAKISTAN - 2019**

For  
**MEDICAL COLLEGES**  
251 - 300 ADMISSIONS PER CLASS

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- 1 Recognition Standards
- 2 Decision Rules
- 3 Methodology



## Introduction

This document describes the minimum requirements for a medical or dental college to operate in Pakistan. The requirements highlighted in this document pertain to evaluation of a college's infrastructure and equipment adequacy for provision of medical education. This document only deals with the initial inspection mandatory for recognition of a medical or dental college.

Along with the evaluation of a college on requirements highlighted in this document, the college will also be surveyed on the standards for performance evaluation – which deals with the quality of the process of delivery of education.

Requirements of this document are to be fulfilled by the medical and dental colleges at all time during the operation. However, the evaluation of fulfilment of these requirements are evaluated:

1. When a new medical or dental college apply for recognition by PMDC
2. When an existing medical or dental college apply for increase in number of students
3. By the order of the Evaluation Committee of PMDC pursuant to complaints or reports received against any existing college
4. By a general order of the Council of PMDC

For new colleges, the inspection shall be carried out using requirements of this document as well as for the performance evaluation accreditation framework.

\* *Amendments made in the document are attached as Annexure.*

# 1. Recognition Standards

## **Pakistan Standards for Initial Recognition of Medical and Dental Colleges**

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Recognition Standard 0: Pre-requisites

Recognition Standard 1: Infrastructure requirements

Recognition Standard 2: Equipment Requirements

Recognition Standard 3: Faculty and Staff requirements

Recognition Standard 4: Teaching Hospital Requirements





## Pre-Requisites

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### Legal Requirements

- 0.1. The college must be established in a building owned or leased from the government or other competent authority by the legal entity that is granted the recognition or its parent entity.
- 0.2. The college must have a hospital(s) that have a minimum of 50% of the total hospital beds owned by the college or leased from the government or other competent authority
- 0.3. The college must provide clinical education on 900 hospital beds per 300 students of admission
- 0.4. For the hospital beds that the college does not own, the college must have a valid and current contract with a third-party hospital for at least 5 years at the time of inspection
- 0.5. For a public college, it has to be approved by the relevant ministry. For a private college, it must be registered as a company with Security and Exchange Commission of Pakistan (SECP) or other applicable approvals such as:
  - a. Body corporate registered under the relevant laws of companies or societies or trust
  - b. Federal Government or Provincial Government or Local Government
  - c. Pakistan University
  - d. Public religious or charitable trust registered under relevant law
- 0.6. The college must have a working capital of *minimum equivalent of number of students overall sessions  $\times$  one month fee of each student*
- 0.7. The college must invest an equivalent amount of 1% of the total annual fee into an endowment fund utilization of which shall be regulated by PMDC or HEC
- 0.8. The college must have its account audited on an annual basis and annual report made available to PMDC
- 0.9. The hospital owned by the college must have its account audited on an annual basis and annual report made available to PMDC
- 0.10. The college must have all its teaching hospitals within 35 km from the college or up to one hour travel time by college bus under normal traffic conditions, whichever is longer.
- 0.11. For private college, it must provide bank guarantee of PKR 30 Million for the college
- 0.12. For private college, it must provide bank guarantee of PKR 20 Million for the hospital

- 0.13.** For public college, its governance structure must be compliant with the government regulations. For private college, its governance structure must be compliant with the requirements of SECP or other regulatory framework under which the college is registered.
- 0.14.** The services offered by the hospital must be approved by the relevant authorities. E.g. when radiology services must be approved by Pakistan Nuclear Regulatory Authority (PNRA).



## Recognition Standard 1: Infrastructure

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### College Covered Area

- 1.1. Total covered area of the medical college must be at least 156,000 sq. ft.
- 1.2. The medical college should be a purpose-built building separate from the hospital

### The college must have

- 1.3. A Learning Resource Centre with at least 9% of the covered area of the college
- 1.4. An auditorium with at least 3% of the covered area of the college
- 1.5. 5 lecture halls, all of which with at least 10% of the covered area of the college
- 1.6. 8 demonstration / small group rooms with 2.5% of the covered area of the college
- 1.7. Two Common Rooms, one for boys and one for girls, combined with at least 5% of the covered area of the college
- 1.8. A Day-Care Room with at least 1% of the covered area of the college
- 1.9. A student's cafeteria with at least 2% of the covered area of the college
- 1.10. Administration Offices (comprising of *Principal Office, VicePrincipal Office, Committee Room, Faculty Room, IT Department Room, Student Section Office, Security Office, Waiting Area, Support Staff Offices, Finance Office, Maintenance Office*) with at least 2% of the covered area of the college
- 1.11. Anatomy Museum with at least 1% of the covered area of the college
- 1.12. Dissection Hall with at least with at least 2% of the covered area of the college
- 1.13. Pathology Museum with at least 0.5% of the covered area of the college
- 1.14. Forensic Medicine Museum with at least 0.5% of the covered area of the college
- 1.15. At least 5 multi-purpose labs for Histology, Physiology, Biochemistry, Pharmacology, Pathology and Community Medicine with at least 5% of the covered area of the college
- 1.16. Skill Development Lab with at least 1% of the covered area of the college
- 1.17. Faculty Offices in each faculty (Basic Sciences Faculty Offices inside college building) with at least 6% of the covered area of the college
- 1.18. Adequate circulation spaces to meet emergency, safety and disability requirements
- 1.19. Any associated dental college may utilize the same basic sciences laboratories, lecture halls. Learning resource centre, cafeteria, student accommodation and other supporting facilities, provided separate adequate faculty is available

## Seating Requirements

- 1.20. Seating capacity for 20% of total student strength in Learning Resource Centre for the 5 years tenure
- 1.21. Seating capacity of 60% of the total student strength in auditorium for the 5 years tenure
- 1.22. Seating capacity of equivalent of student strength in each class in each of the 5 Lecture Halls
- 1.23. Seating capacity of 35 individuals in each of the 8 Demonstration / Small Group Rooms
- 1.24. Seating capacity for 5% of total (males) student strength in Common Room(s) for Boys for the 5 years tenure
- 1.25. Seating capacity for 5% of total (females) student strength in Common Room(s) for Girls for the 5 years tenure
- 1.26. Seating capacity for 20% of total student strength in Students Cafeteria for the 5 years tenure
- 1.27. Seating capacity for 30 individuals in Committee Room
- 1.28. Seating capacity for 70 students in Dissection Hall
- 1.29. Seating capacity of 70 students in each of the 5 multi-purpose labs for Histology, Physiology, Biochemistry, Pharmacology, Pathology and Community Medicine
- 1.30. Separate workstation for each teaching staff of Basic Sciences inside college building, with separate offices for Associate Professors and above.

## Hostel Requirements

- 1.31. A boys' students hostel with at least covered area of 30,000 sq. ft. and a male house officers hostel of 5000 sqft
- 1.32. The boys' students hostel must have the capacity to house at least 20% of the total male student strength
- 1.33. A girls' students hostel with at least covered area of 30,000 sq. ft. and a female house officers hostel of 5000 sqft
- 1.34. The girls' student hostel must have the capacity to house at least 30% of the total female student strength
- 1.35. The hostel must have television and internet access
- 1.36. The hostel must have indoor games facilities



### Other Requirements

- 1.37. The college must be able to provide teaching in an environment with comfortable room temperature (18 to 26 degrees Celsius) in lecture halls, demonstration areas, laboratories and learning resource centres under conditions of full occupancy.
- 1.38. The college's Learning Resource Centre must have functioning computers for 30% of seating capacity with access on all computers of HEC digital library
- 1.39. Wi-Fi connectivity all across the campus, with access to every student and faculty. Wi-Fi connectivity must allow access to HEC digital library.
- 1.40. one multi-sports ground as per the requirements of HEC.
- 1.41. The college must provide transport facility, either owned or hired, catering to at least 20% of the total student strength, 30 faculty members and 30 other staff members
- 1.42. The college must provide to students a counselling cell, staffed with a clinical psychologist

## Recognition Standard 2: Equipment

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### College Laboratory Equipment Requirements

#### Anatomy Major

##### *Anatomy: (Dissection hall)*

- 2.1. A facility for the cadavers or equivalent.
- 2.2. 6 appropriate dissecting instrument sets for three cadavers available, functional and in use. (Optional)
- 2.3. 12 operational full dissection tables available, functional and in use. (Optional)
- 2.4. 30 half dissection tables available, functional and in use. (Optional)
- 2.5. 150 stools available, functional and in use

##### *Anatomy: (histology Laboratory)*

- 2.6. Four histology slide sets available, functional and in use.
- 2.7. 45 binocular microscopes available, functional and in use.
- 2.8. One slide projecting microscope/ one penta-head Multi-viewing Biological Microscope available, functional and in use.
- 2.9. 2 large refrigerator available, functional and in use.
- 2.10. The department may have at least 3 computer with internet facility available, functional and in use. (Optional)
- 2.11. 2 scanner available, functional and in use. (Optional)
- 2.12. 2 colour laser printer available, functional and in use. (Optional)

##### *Anatomy: (Museum)*

- 2.13. 15 torsos (Male and Female) model available, functional and in use.
- 2.14. 2 cross sectional torso model available, functional and in use.(optional)
- 2.15. 11 upper limbs (muscles, vessels, nerves and joints) anatomical model available, functional and in use.
- 2.16. 11 lower limbs (muscles, vessels, nerves and joints) anatomical model available, functional and in use.



- 2.17. 14 head and neck (muscles, vessels, nerves and joints) anatomical model available, functional and in use.
- 2.18. 14 special senses anatomical model available, functional and in use.
- 2.19. 16 brain anatomical model available, functional and in use.
- 2.20. 3 histology models available, functional and in use.
- 2.21. 3 embryology models available, functional and in use.
- 2.22. 11 pelvis models available, functional and in use.
- 2.23. 12 abdominal viscera models / prosected segments available, functional and in use.
- 2.24. 12 liver models / prosected segments available, functional and in use.
- 2.25. 12 kidney models / prosected segments available, functional and in use.
- 2.26. 9 CVS models / prosected segments available, functional and in use.
- 2.27. 12 respiratory system models / prosected segments available, functional and in use.
- 2.28. 3 hundred human's loose bones available, functional and in use.
- 2.29. 10 articulated skeletons available, functional and in use.
- 2.30. Four articulated vertebral column available, functional and in use.
- 2.31. 2 cross sectional body model available, functional and in use. (optional)
- 2.32. The college must have assorted anatomy CDs available, functional and in use.
- 2.33. At least one multimedia available, functional and in use.
- 2.33.1. At least two white boards available, functional and in use.

*Physiology (Major)*

- 2.34. 20 sphygmomanometers available, functional and in use.
- 2.35. 25 microscope Binoculars available, functional and in use.
- 2.36. 40 haemocytometers available, functional and in use.
- 2.37. 30 haemoglobin meters available, functional and in use.
- 2.38. 25 complete perimeters available, functional and in use.
- 2.39. 30 ESR pipettes available, functional and in use.
- 2.40. 40 percussion hammers available, functional and in use.
- 2.41. 5 oxygen cylinders with flow meters available, functional and in use.
- 2.42. 40 clinical thermometers available, functional and in use.
- 2.43. 20 student kymographs available, functional and in use.
- 2.44. 5 ECG machines per available, functional and in use.
- 2.45. 3 centrifuge machine available, functional and in use.
- 2.46. 10 microhaematocrit reader available, functional and in use.
- 2.47. 3 microhematocrit centrifuge available, functional and in use.
- 2.48. 40 stethoscopes available, functional and in use.
- 2.49. 5 data acquisition system available, functional and in use.
- 2.50. 3 finger pulse oximeter available, functional and in use.

*Physiology (Minor)*

- 2.51. 20 stop watches available, functional and in use.
- 2.52. 40 tuning forks of different frequencies available, functional and in use.
- 2.53. 20 vision E type charts/Snellen's charts available, functional and in use.
- 2.54. 15 Ishihara charts available, functional and in use.
- 2.55. 20 weighting machines available, functional and in use.
- 2.56. 4 audiometer available, functional and in use.
- 2.57. 3 examination couch available, functional and in use.
- 2.58. 2 fire extinguisher available, functional and in use.
- 2.59. 10 Jaeger's chart.
- 2.60. 4 ophthalmoscope.
- 2.61. 2 refrigerator.
- 2.62. A stethoscope (complete), with assembly available, functional and in use.
- 2.63. Assorted torches available, functional and in use.
- 2.64. Assorted tourniquets available, functional and in use.
- 2.65. One water bath available, functional and in use.
- 2.66. One beaker 100ml graduated available, functional and in use.
- 2.67. One beaker 500ml graduated available, functional and in use.
- 2.68. One blood group tiles available, functional and in use.
- 2.69. Assorted capillary tubes (heparinised) available, functional and in use.
- 2.70. One treadmill or an aergometer cycle available, functional and in use.
- 2.71. Assorted capillary tubes (plain) available, functional and in use.
- 2.72. Assorted centrifuge tubes with cork available, functional and in use.
- 2.73. Assorted EDTA tube available, functional and in use.
- 2.74. Assorted ESR pipette available, functional and in use.
- 2.75. One glass rod available, functional and in use.
- 2.76. One magnifying glass available, functional and in use.
- 2.77. Assorted microscope slides.
- 2.78. Assorted Petri dishes (various sizes).
- 2.79. One spirit lamp/gas burner available, functional and in use.
- 2.80. One thermometer available, functional and in use.
- 2.81. Assorted Win Trobe's tubes available, functional and in use.
- 2.82. One antisera A, B and D available, functional and in use.
- 2.83. One cedar wood oil available, functional and in use.
- 2.84. One distilled water available, functional and in use.
- 2.85. One bottle of HCL.
- 2.86. One bottle of Leishman's stain available, functional and in use.
- 2.87. One bottle of methylated spirit available, functional and in use.
- 2.88. One bottles of platelet solution (Ree's and Ecker's solution) available, functional and in use.





- 2.89. One set of pregnancy test kits available, functional and in use.
- 2.90. Assorted pregnancy strips available, functional and in use.
- 2.91. One bottle of RBC solution available, functional and in use.
- 2.92. One bottle of WBC solution available, functional and in use.
- 2.93. One bottle of xylene available, functional and in use.

*Biochemistry (Major)*

- 2.94. Two clinical PH meters available, functional and in use.
- 2.95. At least one large size incubator available, functional and in use.
- 2.96. At least two electronic balance available, functional and in use.
- 2.97. At least one thermal cycler available, functional and in use.
- 2.98. At least one electrophoresis available, functional and in use.
- 2.99. At least 4 glucometers available, functional and in use.
- 2.100. 2 bench top centrifuge
  - 2.100.1. At least 3 Microlabs functional, available and in use
  - 2.100.2. At least 10 microscopes functional, available and in use
  - 2.100.3. At least 2 Refrigerator functional, available and in use

*Biochemistry (Minor)*

- 2.101. At least one water distillation unit (operation china 10 Litres) available, functional and in use.
- 2.102. At least one electric water bath available, functional and in use.
- 2.103. At least 10 stop watches available, functional and in use.
- 2.104. At least one hot box oven available, functional and in use.

*Pharmacology (Major)*

- 2.105. At least 7 audio-visual facility and assorted experimental CDs for pharmacology practical's available, functional and in use.
- 2.106. At least 6 BP apparatus available, functional and in use.
- 2.107. At least 6 stethoscopes and 30 kymographs available, functional and in use.

*Pharmacology (Minor)*

- 2.108. At least one electronic balance available, functional and in use.

*Pathology (Major)*

- 2.109. At least thirty five microscope binoculars available, functional and in use.
- 2.110. At least one Microscope multi head (5 piece) available and at least one microscope slide projection system, functional and in use.

*Pathology (Minor)*

- 2.111. At least four stain dropping bottles (250ml) available, functional and in use.
- 2.112. At least four wash bottles available, functional and in use.
- 2.113. At least four adjustable staining racks available, functional and in use.
- 2.114. At least two 14 cubic feet refrigerators available, functional and in use.
- 2.115. At least one – (minus) 20 C deep freezer available, functional and in use.
- 2.116. At least four glass beaker (graduated) (Pyrex) 500 ml graduated available, functional and in use.
- 2.117. At least four glass cylinder (graduated) (Pyrex) 500 ml graduated available, functional and in use.
- 2.118. At least four water stills available, functional and in use.
- 2.119. At least one incubator 37 c large available, functional and in use. tall time.
- 2.120. At least one floating bath available, functional and in use.
- 2.121. At least twenty Staining jars available, functional and in use.
- 2.122. At least one automatic tissue processor available, functional and in use.
- 2.123. One embedding station available, functional and in use.
- 2.124. One water Bath electric available, functional and in use.
- 2.125. At least one paraffin embedding bath available, functional and in use.
- 2.126. At least one oven-wax embedding (100 c) available, functional and in use.
- 2.127. At least one Microtome available, functional and in use.
- 2.128. At least one knife sharpener available, functional and in use.
- 2.129. At least a large incubator available, functional and in use.

\*Items at Serial No 2.118- 2.129 if available in Hospital Lab may be counted as fulfilling requirement of teaching lab

*Community Medicine (Lab/ museum)*

- 2.130. The department must use digital technology in the form of Images, Illustrations, Infographics and power point slides on primary healthcare and community and preventive medicine.
- 2.131. The department must have at least one multimedia projector or LED and one computers for display of images, illustrations, video clips and /or power point slides.
- 2.132. The department must have one computer for research software.



2.133. The department must have at least 5 Images / Illustrations or power pointslides of the following categories

- Ice berg phenomena of the disease
- Pustule eruption in small pox and chicken pox
- Lifecycle of malaria parasite (*P.vivax* and *Falciparum*)
- Xerosis (conjunctival) in vitamin A deficiency
- Lead line on gum
- Cutaneous Leishmaniasis, Ulcers on forearm and head
- Tick
- Flea
- Sand Fly
- House Fly
- *AedesAgypti* mosquito
- *Anopheles* mosquito
- Population Pyramid
- Coal Miners Lung
- Snow storm silicosis (lung)
- Ground Glass Anthracosis (lung)
- Bleeding Gums
- Rickets
- Poliomyelitis
- Measles
- Vaccine Vile Monitor
- Dental Fluorosis
- Spot maps
- Bar Charts
- Histograms
- Frequency Polygon
- Normal Distribution Curve
- Marasmus / Kwashiorkor
- Goitre
- Functioning of incinerator
- Food pyramid
- Sustainable development Goals

**2.134.** The department must have at least following models

- 1 x Septic tank
- 1 x Water filtration plant
- 5 x mid arm circumference (MUAC) tapes
- Various contraceptive devices and oral pills
- 50 x Growth charts
- 50 x antenatal charts
- 3 x measuring tapes and 3 x weighing machines for BMI calculation
- 10 x water purification tablets
- 1 x water testing kit for chlorine
- 3 x EPI vaccines

**2.135.** The department must have following soft wares fully functional and in use for Research methods

- SPSS latest version
- Microsoft Excel
- Epi info
- WHO Sample size calculator
- One of the Reference Managers (Endnote X7 or Mendeley)

*Forensic medicine (Major)*

**2.136.** At least one male or female skeleton available, functional and in use.

**2.137.** At least fifteen separate bones available, functional and in use.

**2.138.** At least twenty models available, functional and in use.

**2.139.** At least fifteen toxicological specimens available, functional and in use.

**2.140.** At least 5 simple hand held magnifying glass available, functional and in use.

**2.141.** At least three binocular microscopes available, functional and in use.

**2.142.** At least 2 ultraviolet lamps for examinations of stains, available, functional and in use.

**2.143.** Two autopsy examination sets available, functional and in use.

**2.144.** At least ten assault weapons (or their replicas) available.

*Forensic medicine (Minor)*

**2.145.** At least ten medico-legal x-rays slides and photography available, functional and in use.



## Teaching Hospital(s) Equipment Requirements

### Major Equipment

#### *General Medicine*

- 2.146. 4 defibrillator available, functional and in use
- 2.147. 5 ECG machine (at least Triple Channel) available, functional and in use.
- 2.148. 3 video endoscopic system with upper and lower sets available, functional and in use.
- 2.149. 3 Trolley for endoscopes available, functional and in use.
- 2.150. 3 echo cardiograph 2D with colour Doppler available, functional and in use.
- 2.151. 3 ETT machine available, functional and in use.
- 2.152. 6 complete nebulizers available, functional and in use.
- 2.153. 25 BP apparatus available, functional and in use.
- 2.154. 30 stethoscopes available, functional and in use.
- 2.155. 10 pulse oximeters available, functional and in use.
- 2.156. 10 glucometers available, functional and in use.
- 2.157. 6 cardiac monitors available, functional and in use.
- 2.158. 30 thermometers available, functional and in use.
- 2.159. 9 torches available, functional and in use.
- 2.160. 6 measuring tapes available, functional and in use.
- 2.161. 8 hammers available, functional and in use.
- 2.162. 6 tuning forks (128Hz) available, functional and in use.
- 2.163. 16 examination couches available, functional and in use.

#### *Dermatology*

- 2.164. 3 electrocautery machines available, functional and in use.
- 2.165. 15 magnifying glasses with fluorescent lamps available, functional and in use.
- 2.166. 3 wood lamps available, functional and in use.
- 2.167. 1 PUVA machine available, functional and in use.
- 2.168. 1 UVB machine available, functional and in use.
- 2.169. 3 liquid nitrogen cylinders for cryo available, functional and in use.
- 2.170. 1 microscope with accessories available, functional and in use.
- 2.171. 6 biopsy sets available, functional and in use.
- 2.172. 6 BP apparatus available, functional and in use.

### *Surgery*

- 2.173. 24 basic standard surgical sets available, functional and in use.
- 2.174. 3 thoracic surgical set available, functional and in use.
- 2.175. 3 vascular surgical set available, functional and in use.
- 2.176. 3 paedurg sets available, functional and in use.
- 2.177. 3 plastic surgery set available, functional and in use
- 2.178. 6 surgical diathermies (Monopolar and Bipolar) machines available, functional and in use.
- 2.179. 3 harmonic/Ligasure machine available, functional and in use.
- 2.180. 6 fibre optic colonoscope (Diagnostic and therapeutic) or flexible sigmoidoscope available, functional and in use.
- 2.181. 6 rigid sigmoidoscope and proctoscope available, functional and in use.
- 2.182. 6 complete laparoscopic surgical sets available, functional and in use.
- 2.183. 4 microsurgical instrument set available, functional and in use.
- 2.184. 4 transurethral resection of prostate surgical set available, functional and in use.
- 2.185. 6 cystoscopes (diagnostic and therapeutic) available, functional and in use.
- 2.186. 3 fiberopticoesophagoscope/gastroscope available, functional and in use.
- 2.187. 3 fibre optic bronchoscope available, functional and in use.
- 2.188. 4 portable X-ray machine, operation table, and radiographic film cassette facilities e.g. for per operative cholangiogram. Image intensifier with C-arm and double monitors available, functional and in use.
- 2.189. 9 suction machines available, functional and in use.
- 2.190. 4 defibrillator available, functional and in use.

### *Obstetrics and Gynaecology*

- 2.191. 6 ultrasounds with linear, vaginal, section probes and punctures available, functional and in use.
- 2.192. 2 hysteroscope available, functional and in use.
- 2.193. 4 colposcope available, functional and in use.
- 2.194. 2 laparoscopic surgical sets with camera and monitors available, functional and in use.
- 2.195. 6 delivery table available, functional and in use.
- 2.196. 15 examination tables available, functional and in use.
- 2.197. 10 manual BP apparatus available, functional and in use at all time?
- 2.198. 10 dyna-map available, functional and in use.
- 2.199. 8 pulse oximeters available, functional and in use.
- 2.200. 4 baby weighing scales available, functional and in use.



- 2.201. 15 pinnard stethoscopes/fetosopes available,functional and in use.
- 2.202. 4 instrument sterilizers available, functional and in use.
- 2.203. 4 sonicaid available, functional and in use.
- 2.204. 6 CTG machines available, functional and in use.
- 2.205. 4 neonatal resuscitation trolley and heaters available,functional and in use.
- 2.206. 20 disposable delivery sets.
- 2.207. 20 Cusco's speculum available, functional and in use.
- 2.208. 5 adult ambu bags and masks available, functional and in use.
- 2.209. 20 Sims speculum available, functional and in use.
- 2.210. 20 perineal/vaginal/cervical repair sets available,functional and in use.
- 2.211. 10 Caesarean section sets available, functional and in use.
- 2.212. 5 dilatation and Evacuation sets (D&C) available,functional and in use.
- 2.213. 6 manual vacuum aspirators available, functional and in use.
- 2.214. 6 vacuum ventuse cups available, functional and in use.
- 2.215. 6 outlet forceps available, functional and in use.
- 2.216. 6 infant laryngoscopes with spare bulbs available,functional and in use.
- 2.217. 6 suction machines available, functional and in use.
- 2.218. 6 teaching dummies and anatomical pelvis models available, functional and in use.
- 2.219. 4 dummies for pelvic examination available, functional and in use.
- 2.220. 1 adequate equipment for family planning available,functional and in use.

*Basic Surgery sets in main Operating Theatre*

- 2.221. 1 sterilizer (>300L capacity) available, functional and in use.
- 2.222. Sufficient instrument boxes, scalpel handles of various sizes,May-Hegggar Needle holders of various sizes, artery forceps, Halstead (non-serrated and curved ) various sizes, surgical dissecting scissors, metzembaum (Curved) of various sizes, Kocher's forceps (toothed, straight, haemostatic) of various sizes, Probes of various sizes, Dissecting forceps with and without teeth of various sizes, Haemostatic forceps (Collin and Chaput) of various sizes, towel clips and galipots of various sizes available, functional and in use.
- 2.223. Farabeuf retractors, short, self-retaining retractors for thoracic,abdominal and minor procedures etc. available, functional and in use.

*Out-Patient:*

- 2.224. 1 stethoscope per clinic available, functional and in use.
- 2.225. 1 fetal/paediatric stethoscope per respective clinics available,functional and in use.
- 2.226. BP apparatus per clinic available, functional and in use.
- 2.227. One thermometer (Oral/arm-pit) and sufficient rectalthermometers available, functional and in use.

- 2.228. Light source (battery type), tongue depressors, tape measures(Flexible, soft), Snellen chart (including for uneducated patients), hammers, head mirrors/head lights, mirror laryngeal sets, otoscopes, and Collyer pelvimeters, examination tables, available, functional and in use.
- 2.229. Laryngoscopes available, functional and in use.
- 2.230. Stretchers (folding type) available, functional and in use.
- 2.231. Ambu bags for infants, paediatric patients and adult patientsavailable, functional and in use.
- 2.232. Suction machines available, functional and in use.
- 2.233. Consumables like gloves, Endo tracheal tubes of various sizes,IV cannulas of various sizes, masks etc. available, functional and in use.

*Paediatrics Department*

- 2.234. 1 weighing scale available, functional and in use.
- 2.235. 1 length/height measuring scale available, functional and in use.
- 2.236. 2 ultrasonic nebulizers available, functional and in use.
- 2.237. 1 paediatric ventilator available, functional and in use.
- 2.238. 1 neonatal ventilator available, functional and in use.
- 2.239. 1 pulse oximeter available, functional and in use.
- 2.240. 3 infusion pump available, functional and in use.
- 2.241. 1 cardiac monitor available, functional and in use.
- 2.242. 1 transport incubator available, functional and in use.
- 2.243. 1 neonatal resuscitator available, functional and in use.
- 2.244. 1 low grade suction apparatus available, functional and in use.
- 2.245. 1 resuscitator (infant/child), manual available, functional and in use.
- 2.246. 1 suction machine (dual operation with tubes) available,functional and in use.
- 2.247. 2 otoscopes with infant diagnostic heads available, functionaland in use.
- 2.248. 2 forceps, splinter/repilation, and spring available, functionaland in use.
- 2.249. 2 paediatric nasal speculums available, functional and in use.
- 2.250. 1 scale for infants available, functional and in use.
- 2.251. 1 height measuring scale for infants available, functional and in use.
- 2.252. 6 oral/armpit thermometers available, functional and in use.
- 2.253. 5 BP apparatus (new born, neonatal, paediatric, cuffs) available,functional and in use.
- 2.254. One paediatric BLS mannequin.





*Ophthalmology Department*

- 2.255. 1 Autorefracto/Keratometer available, functional and in use.
- 2.256. 1 Ultrasound A-scan bio-meter available, functional and in use.
- 2.257. 1 Ultrasound B-scan available, functional and in use.
- 2.258. 1 Keratometer (automated) available, functional and in use.
- 2.259. 1 Application Tonometer available, functional and in use.
- 2.260. 1 Phacoemulsification unit available, functional and in use.
- 2.261. 1 Slitlamp with applanation tonometer available, functional and in use.
- 2.262. 1 Prism bar (Horizontal) available, functional and in use.
- 2.263. 1 Lensometer manual available, functional and in use.
- 2.264. 1 Operating microscope available, functional and in use.
- 2.265. 1 indirect ophthalmoscope available, functional and in use.
- 2.266. 1 direct ophthalmoscope available, functional and in use.
- 2.267. 1 Retinoscope available, functional and in use.
- 2.268. 1 Trial lens set with trial frame available, functional and in use.
- 2.269. 1 Prism bar (vertical) available, functional and in use.
- 2.270. 1 Manual visual field analyzer (Bjerrum screen) available, functional and in use.
- 2.271. 1 Automated visual field analyzer (Bjerrum screen) available, functional and in use.
- 2.272. 1 electrosurgical diathermy unit (Mono/Bipolar) available, functional and in use.
- 2.273. 1 Portable surgical light available, functional and in use.

*ENT Department*

- 2.274. 1 OPD instrument set available, functional and in use.
- 2.275. 1 Auroscope available, functional and in use.
- 2.276. 1 Ultrasound B-scan available, functional and in use.
- 2.277. 1 microscope for O.T available, functional and in use.
- 2.278. 1 rigid endoscopes with all accessories available, functional and in use.
- 2.279. 1 Audiometer available, functional and in use.
- 2.280. 1 Impedance Audiometer available, functional and in use.
- 2.281. 1 BERA available, functional and in use.
- 2.282. 1 Minor OT dressing/Examination set available, functional and in use.
- 2.283. 1 General Set for OT available, functional and in use.
- 2.284. 1 Microscope instrument set for maxilloidectomy available, functional and in use.
- 2.285. 1 Microscope instrument set for tympanoplasty available, functional and in use.
- 2.286. 1 Microscope instrument set for Stapedectomy available, functional and in use.
- 2.287. 1 Set for tonsillectomy available, functional and in use.
- 2.288. 1 Set for Rhinoplasty available, functional and in use.
- 2.289. 1 Set for FESS available, functional and in use.
- 2.290. 1 Air Drill with all accessories available, functional and in use.

*Accident and Emergency Department*

- 2.291. 6 beds with monitoring facilities available, functional and in use.
- 2.292. 2 minor operating theatre available, functional and in use.
- 2.293. 2 pharmacy in emergency area available, functional and in use.
- 2.294. 2 facility for resuscitation including crash cart (Defibrillator) and a cubicle for patient with central oxygen, suction and monitoring facilities stay available, functional and in use. (essential)

*Operating Rooms*

- 2.295. Five fully equipped operating rooms available, functional and in use.
- 2.296. Appropriately furnished Pre-anesthesia area available, functional and in use.
- 2.297. Recovery area with central oxygen and suction and monitoring facilities available, functional and in use.
- 2.298. Monitoring facilities per OR available, functional and in use.
- 2.299. 1 image intensifier available, functional and in use.
- 2.300. Facilities for resuscitation available, functional and in use.
- 2.301. 5 anaesthesia work stations available, functional and in use.
- 2.302. 1 diathermy machine per theatre (Monopolar and bipolar) available, functional and in use.
- 2.303. Adequate OT Waste disposal method available, functional and in use.

*Critical care beds with isolation facilities as a part of intensive care, coronary care and neonatal care & HDU*

- 2.304. Ten medical ICU beds (Essential) available, functional and in use.
- 2.305. Ten surgical ICU beds (Mandatory) available, functional and in use.
- 2.306. Ten separate paediatric & neonatal intensive care beds available, functional and in use.
- 2.307. Implementation of sanitation & isolation protocols available, functional and in use.

*Central Sterilization and Storage Department*

- 2.308. Instrument washing area available, functional and in use.
- 2.309. Linen washing area available, functional and in use.
- 2.310. 1 washer and disinfectant available, functional and in use.
- 2.311. 2 steam autoclaves with 134 degrees' temperature (500L) available, functional and in use.
- 2.312. 1 Ethylene oxide/ Formaldehyde gas / plasma sterilizer available, functional and in use.
- 2.313. 1 sealant machine available, functional and in use.
- 2.314. Chemical based high level disinfection/sterilization facilities available, functional and in use.
- 2.315. Storage and distribution counter available, functional and in use.
- 2.316. Separate path for collection of dirty linen and instruments available, functional and in use.



## *Radiology Services with all imaging modalities*

### *X-Ray Machines:*

- 2.317. 3 Fluoroscopy/image intensifiers (500mA) available, functional and in use.
- 2.318. 1 stationary Bucky table (300mA) available, functional and in use.
- 2.319. 1 stationary Bucky Stand (300mA) available, functional and in use.
- 2.320. 1 portable X-ray (100mA) available, functional and in use.

### *Ultrasound:*

- 2.321. 2 probe grey scale (3.5 MHz) available, functional and in use.
- 2.322. 2 probe portable grey scale (3.5 MHz) available, functional and in use.
- 2.323. 1 colour Doppler (with multi frequency probes) available, functional and in use.
- 2.324. 2 biopsy probes available, functional and in use.

### *Other Equipment:*

- 2.325. 1 CT Scan 16 slices or above available, functional and in use.
- 2.326. Or have access to 1 MRI (1.5Tesla or above) available, functional and in use or 0.4 tesla Open MRI.
- 2.327. 1 Mammography available, functional and in use.
- 2.328. 1 Orthopantomogram (OPG) available, functional and in use.

### *Safety Equipment:*

- 2.329. 7 lead aprons available, functional and in use.
- 2.330. 2 TLDs available, functional and in use.
- 2.331. 4 lead shields/partitions available, functional and in use
- 2.332. One film badge/radiation detector per staff member and available, functional and in use.

## *Hospital Laboratory Services*

### *Haematology Instrument:*

- 2.333. 3/5 part automated differential counter available, functional and in use.
- 2.334. 2 microscopes available, functional and in use.
- 2.335. One basic staining facilities including for reticulocytes available, functional and in use.
- 2.336. 1 fridge to keep samples available, functional and in use.

### *Blood Bank*

- 2.337. 1 serofuge available, functional and in use.
- 2.338. 1 agglutination viewer available, functional and in use.
- 2.339. 1 blood bank fridge available, functional and in use.
- 2.340. 1 microscope and 1 water bath/heat block available, functional and in use.

- 2.341. 1 platelet rotator with incubator available, functional and in use.
- 2.342. 1 minus thirty-degree refrigerator for storage available, functional and in use.

*Chemical Pathology:*

- 2.343. 1 automated chemistry analyser available, functional and in use
- 2.344. 1 immuno-assay analyser available, functional and in use.
- 2.345. 1 electrolyte analyser available, functional and in use.
- 2.346. 1 blood gas analyser (either in department or in ICU) available, functional and in use.
- 2.347. 1 fridge and 1 minus-twenty degree freezer for lab available, functional and in use.

*Microbiology:*

- 2.348. 1 incubator (37 degrees) available, functional and in use
- 2.349. 1 basic staining facilities available, functional and in use
- 2.350. 1 refrigerator available, functional and in use.
- 2.351. 2 microscopes available, functional and in use.
- 2.352. 1 safety hood available, functional and in use.



## Recognition Standard 3: Faculty and Staff

The requirements mentioned in this standard pertain to faculty and staff of the college. The numbers written in this section relate to admission of a class of 300 students.

### General Requirements

- 3.1. Faculty attendance of at least 70% verifiable through biometric attendance
- 3.2. The college must have contracts with all faculty members, with remuneration clearly specified
- 3.3. The college must be able to demonstrate payment of the remuneration to the faculty members through banking channel every month for the last 12 months

### Basic Sciences

For Integrated system, a total of 35 demonstrators would be required for Anatomy, Physiology and Biochemistry. If integration includes Pharmacology (10 demonstrators), Pathology (14 demonstrators), Forensic Medicine (7 demonstrators) and Community Medicine (10 Demonstrators) the pool shall include their respective demonstrators.

#### *Anatomy:*

- 3.4. Two Professor of Anatomy
- 3.5. Three Associate Professor of Anatomy or above
- 3.6. Five Assistant Professors of Anatomy or above
- 3.7. Fourteen demonstrators of Anatomy, or equivalent number in case of integrated curriculum
- 3.8. Six lab technicians / assistants of Anatomy
- 3.9. Six dissection hall attendants
- 3.10. One curator of anatomy museum
- 3.11. Two computer operator in Anatomy Department

#### *Physiology:*

- 3.12. Two Professors of Physiology
- 3.13. Three Associate Professor of Physiology or above
- 3.14. Five Assistant Professors of Physiology or above
- 3.15. Fourteen demonstrators of Physiology, or equivalent number in case of integrated curriculum
- 3.16. Six lab technicians / assistants of Physiology
- 3.17. Two computer operator in Physiology Department
- 3.18. One storekeeper in Physiology Department

#### *Biochemistry:*

- 3.19. One Professor of Biochemistry
- 3.20. Two Associate Professor of Biochemistry or above
- 3.21. Four Assistant Professors of Biochemistry or above

- 3.22. Seven demonstrators of Biochemistry, or equivalent number in case of integrated curriculum
- 3.23. Three lab technicians / assistants of Biochemistry
- 3.24. Two computer operator in Biochemistry Department
- 3.25. One storekeeper in Biochemistry Department

*Pharmacology:*

- 3.26. Two Professor of Pharmacology
- 3.27. Two Associate Professor of Pharmacology or above
- 3.28. Four Assistant Professor of Pharmacology or above
- 3.29. Ten demonstrators of Pharmacology, or equivalent number in case of integrated curriculum
- 3.30. One Pharmacists in Pharmacology
- 3.31. Three lab technician / assistant of Pharmacology
- 3.32. Two computer operator in Pharmacology Department
- 3.33. One storekeeper in Pharmacology Department

*Pathology:*

- 3.34. Three Professors of Pathology (*Either in Histopathology, Microbiology, Chemical Pathology or Haematology*)
- 3.35. One Associate Professor of Histopathology or above
- 3.36. One Associate Professor of Microbiology or above
- 3.37. One Associate Professor or above of Chemical Pathology
- 3.38. One Associate Professor or above of Haematology
- 3.39. One Assistant Professor of Histopathology or above
- 3.40. One Assistant Professor of Microbiology or above
- 3.41. One Assistant Professor of Chemical Pathology or above
- 3.42. One Assistant Professor of Haematology or above
- 3.43. Fourteen demonstrators of Pathology, or equivalent number in case of integrated curriculum
- 3.44. Ten lab technicians / assistants of Pathology
- 3.45. One curator of pathology museum
- 3.46. Three computer operators in Pathology Department
- 3.47. One storekeeper in Pathology Department

*Forensic Medicine:*

- 3.48. One Professor of Forensic Medicine
- 3.49. One Associate Professor of Forensic Medicine
- 3.50. Two Assistant Professor of Forensic Medicine
- 3.51. Seven demonstrators of Forensic Medicine, or equivalent number in case of integrated curriculum
- 3.52. Three lab technician / assistant of Forensic Medicine



3.53. Two computer operator in Forensic Medicine Department

3.54. One storekeeper in Forensic Department

*Medical Education*

3.55. One Professor or Associate Professor and one Assistant Professor of Medical Education

*Community Medicine*

3.56. Two Professors of Community Medicine

3.57. Three Associate Professors or above of Community Medicine

3.58. Four Assistant Professors or above of Community Medicine

3.59. Ten demonstrators of Community Medicine, or equivalent number in case of integrated curriculum

3.60. One social worker who is a qualified clinical psychologist and additionally responsible for student and faculty counselling

3.61. One statistician

3.62. Two computer operator in Community Medicine

**Clinical Sciences**

*General Medicine*

3.63. Three Professors of General Medicine

3.64. Four Associate Professors of General Medicine or above

3.65. Seven Assistant Professors of General Medicine or above

3.66. Seven Senior Registrars/ specialty Registrars of General Medicine or above

3.67. Ten Residents/ Medical Officers of General Medicine

*General Surgery*

3.68. Three Professors of General Surgery

3.69. Four Associate Professors of General Surgery or above

3.70. Seven Assistant Professors of General Surgery or above

3.71. Six Senior Registrars/ specialty Registrars of General Surgery or above

3.72. Ten Residents/ Medical Officers of General Surgery

*Obstetrics and Gynaecology*

3.73. Three Professors of Ob/Gyne

3.74. Four Associate Professors of Ob/Gyne or above

3.75. Five Assistant Professors of Ob/Gyne or above

3.76. Six Senior Registrars/ specialty Registrars of Ob/Gyne or above

3.77. Six Residents/ Medical Officers of Ob/Gyne

*Ophthalmology*

The department must have

- 3.78. At least two Professor of Ophthalmology
- 3.79. At least two Associate Professor of Ophthalmology or above
- 3.80. At least two Assistant Professor of Ophthalmology or above
- 3.81. At least four Senior Registrars/ specialty Registrars of Ophthalmology or above
- 3.82. At least seven Residents/ Medical Officers of Ophthalmology

*ENT*

The department must have

- 3.83. At least two Professor of ENT
- 3.84. At least two Associate Professor of ENT or above
- 3.85. At least two Assistant Professor of ENT or above
- 3.86. At least four Senior Registrars/ specialty Registrars of ENT or above
- 3.87. At least seven Residents/ Medical Officers of ENT

*Paediatrics*

The department must have

- 3.88. At least two Professor of Paediatrics
- 3.89. At least two Associate Professor of Paediatrics or above
- 3.90. At least five Assistant Professor of Paediatrics or above
- 3.91. At least four Senior Registrars/ Speciality Registrars of Paediatrics or above
- 3.92. At least ten Residents/ Medical Officers of Paediatrics

*Orthopaedics*

The department must have

- 3.93. At least one Professor of Orthopaedics
- 3.94. At least two Associate Professor of Orthopaedics or above
- 3.95. At least two Assistant Professor of Orthopaedics or above
- 3.96. At least two Senior Registrars/ specialty Registrars of Orthopaedics or above
- 3.97. At least five Residents/ Medical Officers of Orthopaedics

*Psychiatry*

The department must have

- 3.98. At least one Professor and one Associate Professor of Psychiatry
- 3.99. At least two Assistant Professor of Psychiatry or above
- 3.100. At least two Senior Registrars/ specialty Registrars of Psychiatry or above
- 3.101. At least six Residents/ Medical Officers of Psychiatry





*Dermatology*

The department must have

- 3.102. At least one Professor and one Associate Professor of Dermatology
- 3.103. At least two Assistant Professor of Dermatology or above
- 3.104. At least two Senior Registrars/ specialty Registrars of Dermatology or above
- 3.105. At least six Residents/ Medical Officers of Dermatology

*Cardiology*

The department must have

- 3.106. Two faculty member Assistant Professor or above in Cardiology
- 3.107. Two Senior Registrars/ specialty Registrars or above of Cardiology
- 3.108. Four Residents/ Medical Officers of Cardiology

*Pulmonology*

The department must have

- 3.109. At least two faculty member Assistant Professor or above in Pulmonology
- 3.110. At least two Senior Registrars/ specialty Registrars or above of Pulmonology
- 3.111. At least four Residents/ Medical Officers of Pulmonology

*Nephrology*

The department must have

- 3.112. At least two faculty member Assistant Professor or above in Nephrology
- 3.113. At least two Senior Registrars/ Speciality Registrars or above of Nephrology
- 3.114. At least four Residents/ Medical Officers of Nephrology

*Gastroenterology*

The department must have

- 3.115. At least two faculty member Assistant Professor or above in Gastroenterology
- 3.116. At least two Senior Registrars/ Speciality Registrars or above of Gastroenterology
- 3.117. At least four Residents/ Medical Officers of Gastroenterology

*Medicine and Allied Specialty*

The department must have

- 3.118. At least one faculty member Assistant Professor or above in either Clinical Haematology, Rheumatology, Endocrinology, Oncology, Infectious Diseases, Geriatrics or Neurology.
- 3.119. At least five Residents/ Medical Officers of the opted medical specialty

*Accident and Emergency*

The department must have

- 3.120. At least two faculty member Assistant Professor or above; or **two** consultant in Accident and Emergency
- 3.121. Five casualty medical officers per shift

*Anaesthesia*

The department must have

- 3.122. At least two Professor of Anaesthesia
- 3.123. At least two Associate Professor of Anaesthesia or above
- 3.124. At least two Senior Registrars or Assistant Professor of Anaesthesia or above
- 3.125. At least four Residents/ Medical Officers of Anesthesia

*Radiology*

The department must have

- 3.126. At least two Professor of Radiology
- 3.127. At least two Associate Professor of Radiology or above
- 3.128. At least two Senior Registrars or Assistant Professor of Radiology or above
- 3.129. At least four Residents / Medical Officers of Radiology

*Surgical and Allied Specialty*

3.130. One faculty member Assistant Professor or above in any two of the following specialties:

- 3.130.1. Cardiac Surgery
- 3.130.2. Neurosurgery
- 3.130.3. Paediatric Surgery
- 3.130.4. Thoracic Surgery
- 3.130.5. Urology
- 3.130.6. Plastic surgery
- 3.130.7. Maxillofacial Surgery

3.131. The department must have at least 5 resident/ medical officers of each of the opted allied surgical specialty

*\*Sub Specialists already registered with PMDC in Medicine and Allied and Surgery and Allied specialties may be considered as the faculty of sub specialty if they have relevant registered level III qualification in their respective sub specialty.*

*\*\* Additional faculty member in a category may be counted in the lower category if deficient but not vice versa.*



## Support Departments

The college must have appropriately staffed

**3.132.** Library managed by one librarian and three deputy librarians

**3.133.** Quality Assurance Cell

**3.134.** IT Department

**3.135.** Student Section

**3.136.** Security Department

**3.137.** Finance Department

**3.138.** Maintenance Department

## Recognition Standard 4: Teaching Hospital

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The requirements in this section pertain to admission of class of 300 students. For any other number of students, similar ratios shall apply.

### General

- 4.1. The college, if using a third-party hospital for teaching, must have a valid MoU with hospital(s), which shall have not less than 5 years validity at the time of inspection.
- 4.2. The teaching hospital must not charge any accommodation or consultation fees from the patient on not for profit beds (35% of total number of beds), while laboratory services, medicine and supplies, if any, must only be charged from the patient on a no-profit basis. The private medical colleges must sign a MoU with the nearest public sector hospital to accommodate their over flow patients against these beds as a mandatory community service
- 4.3. The college must provide clinical teaching to students in a hospital with a functioning Electronic Health Management Information System with capabilities of recording of:
  - 4.3.1. Number of patient encounters in OPD
  - 4.3.2. Number of admissions in IPD
  - 4.3.3. Number of procedures in OPD
  - 4.3.4. Number of procedures / surgeries in IPD
  - 4.3.5. Type of procedures / surgeries in OPD and IPD
  - 4.3.6. Calculating Length of Stay (LOS) in IPD
  - 4.3.7. Bed Occupancy
  - 4.3.8. Lab Tests Volume
  - 4.3.9. Biometric Attendance
- 4.4. Clinical teaching staff should have separate work stations and offices for assistant professors, associate professors, and professors.

### Clinical Specialities and Beds

For a measureable element to be marked 'met', the bed has to be occupied by a patient of the same specialty at the time of inspection and prior to inspection verified through the HMIS data.

The hospital(s) must have

- 4.5. Internal Medicine specialty with a minimum of 120 inpatient beds
- 4.6. Psychiatry specialty with a minimum of 5 inpatient beds
- 4.7. Dermatology specialty with a minimum of 5 inpatient beds
- 4.8. Cardiology specialty with a minimum of 5 inpatient beds
- 4.9. A minimum of 5 CCU beds



- 4.10. Pulmonology specialty with a minimum of 5 inpatient beds
- 4.11. Nephrology specialty with a minimum of 5 inpatient beds
- 4.12. A minimum of 5 dialysis chairs
- 4.13. Gastroenterology specialty with a minimum of 5 inpatientbeds
- 4.14. Medical ICU with a minimum of 10 inpatient beds
- 4.15. At least one of the following specialties with a minimum of 5 inpatient beds
  - 4.15.1. Rheumatology
  - 4.15.2. Endocrinology
  - 4.15.3. Oncology
  - 4.15.4. Infectious Diseases
  - 4.15.5. Clinical Haematology,
  - 4.15.6. Geriatrics
  - 4.15.7. Neurology.

*145 beds may be distributed by the hospital(s) in any of the medicine and allied specialties above.*

- 4.16. General Surgery specialty with a minimum of 140 inpatientbeds, excluding post-operative recovery beds
- 4.17. Gynaecology and Obstetrics specialty with a minimum of 110 inpatient beds (including labour room)
- 4.18. Ophthalmology specialty with a minimum of 20 inpatientbeds
- 4.19. Ear, Nose and Throat (ENT) specialty with a minimum of 20 inpatient beds
- 4.20. Orthopaedics specialty with a minimum of 25 inpatientbeds
- 4.21. Anaesthesia specialty with a minimum of 10 Surgical ICUbeds
- 4.22. At least two of the following specialties with a minimumof 25 inpatient beds each
  - 4.22.1. Cardiac Surgery
  - 4.22.2. Neurosurgery
  - 4.22.3. Paediatric Surgery
  - 4.22.4. Thoracic Surgery
  - 4.22.5. Urology
  - 4.22.6. Plastic Surgery
  - 4.22.7. Maxillofacial Surgery

*95 beds may be distributed by the hospital(s) in any of the surgery and allied specialties above.*

- 4.23. Paediatrics specialty with a minimum of 100 inpatient beds
- 4.24. Accident and Emergency (A&E) specialty with a minimumof 10 beds
- 4.25. At least 10% of all inpatient beds (not including Medical ICU and Surgical ICU) musthave cardiac monitor with slandered pulse, BP, ECG and Oxygen Saturation.

## **Patient Load**

Patient load is to be verified from the hospital's HMIS.

### *Outpatient Load*

The hospital(s) should have had

- 4.26. Minimum OPD of more than 1500 patients permonth averaged for the past 12 months in General Medicine
- 4.27. Minimum OPD of more than 150 patients permonth averaged for the past 12 months in Psychiatry
- 4.28. Minimum OPD of more than 150 patients permonth averaged for the past 12 months in Dermatology
- 4.29. Minimum OPD of more than 150 patients permonth averaged for the past 12 months in Cardiology
- 4.30. Minimum OPD of more than 150 patients permonth averaged for the past 12 months in nephrology and pulmonology each
- 4.31. Minimum OPD of more than 150 patients permonth averaged for the past 12 months in Gastroenterology
- 4.32. Minimum of more than 150 patients per month seenaveraged for the past 12 months in Accident and Emergency
- 4.33. Minimum OPD of more than 150 patients permonth averaged for the past 12 months in opted elective allied medical speciality
- 4.34. Minimum OPD of more than 1700 patients permonth averaged for the past 12 months in Paediatrics
- 4.35. Minimum OPD of more than 1500 patients permonth averaged for the past 12 months in General Surgery
- 4.36. Minimum OPD of more than 250 patients permonth averaged for the past 12 months in ENT
- 4.37. Minimum OPD of more than 250 patients permonth averaged for the past 12 months in Ophthalmology
- 4.38. Minimum OPD of more than 1800 patients permonth averaged for the past 12 months in Gynaecology and Obstetrics
- 4.39. Minimum OPD of more than 250 patients permonth averaged for the past 12 months in Orthopaedics
- 4.40. Minimum OPD of more than 150 patients permonth averaged for the past 12 months in each of the two opted elective allied surgical specialities.



*Inpatient*

- 4.41. Total bed occupancy of the hospital should be at least 70% in the past 12 months.
- 4.42. In each of the specialty in the hospital, the bed occupancy should be at least 50% in the past 12 months

*Major and Minor Procedures*

Major procedure is defined as a procedure performed under general anaesthesia. Minor procedure is defined as a procedure performed under local or no anaesthesia.

The hospital(s) should have had

- 4.43. Minimum of 350 procedures performed in the past 12 months in General Medicine
- 4.44. Minimum of 250 procedures performed in the past 12 months in Dermatology
- 4.45. Minimum of 300 procedures performed in the past 12 months in Cardiology
- 4.46. Minimum of 200 procedures performed in the past 12 months in nephrology and pulmonology each
- 4.47. Minimum of 300 procedures performed in the past 12 months in Gastroenterology
- 4.48. Minimum of 300 procedures performed in the past 12 months in Accident and Emergency
- 4.49. Minimum of 150 procedures performed in the past 12 months in medicine and allied opted elective medical speciality.
- 4.50. Minimum of 3500 minor procedures in the past 12 months in General Surgery
- 4.51. Minimum of 1000 major procedures in the past 12 months in General Surgery
- 4.52. Minimum of 1500 minor procedures in the past 12 months in Anaesthesia
- 4.53. Minimum of 2000 major procedures in the past 12 months in Anaesthesia
- 4.54. Minimum of 250 procedures in the past 12 months in ENT
- 4.55. Minimum of 250 procedures in the past 12 months in Ophthalmology
- 4.56. Minimum of 1000 minor procedures in the past 12 months in Gynaecology and Obstetrics
- 4.57. Minimum of 2000 **major** procedures in the past 12 months in Gynaecology and Obstetrics
- 4.58. Minimum of 250 procedures in the past 12 months in Orthopaedics
- 4.59. Minimum of 100 **minor** procedures in the past 12 months in each of the two opted elective surgical specialities.
- 4.60. Minimum of 100 **major** procedures in the past 12 months in each of the two opted elective surgical specialities.

## Lab volume

The hospital should have had

- 4.61. More than an average of 300 haematology tests performed every month, for the past twelve months
- 4.62. More than an average of 30 units of blood provided by blood bank per month, for the past twelve months
- 4.63. More than an average of 1000 chemical pathology tests performed every month, for the past twelve months
- 4.64. More than an average of 150 microbiology tests performed every month, for the past twelve months
- 4.65. Performed more than an average of 30 biopsies per month, for the past twelve months

## Facilities

- 4.66. Each of hospital pharmacy, both for indoor and outdoor patients
- 4.67. All the hospital pharmacies must have trained and qualified pharmacists, with minimum qualification of Pharm D.
- 4.68. Faculty workstations or separate offices for Associate Professor and above.
- 4.69. Resuscitation area with all equipment
- 4.70. 20 separate OPD rooms for specialties
- 4.71. Five designated areas / demonstration rooms in OPD/IPD for teaching / evaluation of medical students
- 4.72. Five fully equipped operating rooms
- 4.73. A Central Sterilization and Store Department (CSSD)
- 4.74. A Radiology department





## 2. Decision Rules

Recognition evaluation is performed by inspectors appointed by PMDC to verify that a college meets the infrastructure, equipment, faculty, staff and teaching hospital requirements.

In order for a college to qualify for recognition, the college must meet all of the standards as per the following:

1. The college meets all the legal requirements
2. The college meets all the infrastructure requirements
3. The college meets at least 90% of equipment requirements
4. The college meets at least 90% of the faculty requirements
5. The college meets at least 90% of the teaching hospital requirements

After satisfying all the above requirements, the college is recommended for a performance evaluation, after which the college will be recognized by PMDC for admitting students to the program.

For new colleges, applying to PMDC for recognition for the first time, a complete performance evaluation may not be performed. Instead only components related to curriculum design, assessment methods, faculty, institutional safety and hospital safety may be performed. Full performance evaluation may be performed within 12 months of the start of education in the college.

The decision rules for meeting the requirements outlined above are as:

### **Decision Rule Number 1 (Legal):**

- If all the legal requirements of college are verified to be met, the requirement for this standard are deemed to be met.
- If in any of the legal requirements are not met, the college will be deemed to have not met the requirements of this standard.

### **Decision Rule Number 2 (Infrastructure):**

- If all the measurable elements of infrastructure of college are verified to be met, the requirement for this standard are deemed to be met.

- If in up to 10% of the measurable elements regarding infrastructure requirements are not met, the college will be given 12 months to rectify the deficiency and the college will be deemed to have provisionally met the requirements of the standard. Upon rectification of the deficiency as verified by PMDC during onsite college visit, the requirement for this standard are deemed to be met
- If in more than 10% of measurable elements of the infrastructure compliance is not met the college will be deemed to have not met the requirements of this standard.

**Decision Rule Number 3 (Equipment):**

- If up to 90% of the measurable elements of equipment of college are verified to be met, the requirement for this standard are deemed to be met.
- If in up to 25% of the measurable elements regarding major equipment requirements are not met, the college will be given 12 months to rectify the deficiency and the college will be deemed to have provisionally met the requirements of the standard. Upon rectification of the deficiency as verified by PMDC during onsite college visit, the requirement for this standard are deemed to be met.
- If in more than 25% of measurable elements of the major equipment compliance is not met the college will be deemed to have not met the requirements of this standard.
- If in any of the measurable elements, the equipment specified as ‘minor’ are not available or functional, the college will be given 6 months to rectify the deficiency and get it verified by PMDC

**Decision Rule Number 4 (Faculty and Staff):**

- If up to 90% of the measurable elements of faculty of college are verified to be met, the requirement for this standard are deemed to be met.
- If in up to 25% of the measurable elements regarding faculty requirements are not met, the college will be given 12 months to rectify the deficiency and the college will be deemed to have provisionally met the requirements of the standard. Upon rectification of the deficiency as verified by PMDC during onsite college visit, the requirement for this standard are deemed to be met
- If in more than 25% of measurable elements of the faculty and staff compliance is not met the college will be deemed to have not met the requirements of this standard.

**Decision Rule Number 5 (Teaching Hospital):**

- If the first two elements (4.1 & 4.2) of the section ‘General’ are found to be non-compliant, the requirements of this standard are deemed to be not met.



- If up to 90% of the measurable elements in sections other than 'General' of teaching hospital are verified to be met, the requirement for this standard are deemed to be met.
- If in up to 25% of the measurable elements regarding teaching hospital requirements are not met, the college will be given 12 months to rectify the deficiency and the college will be deemed to have provisionally met the requirements of the standard. Upon rectification of the deficiency as verified by PMDC during onsite hospital visit, the requirement for this standard are deemed to be met.
- If in more than 25% of measurable elements of the teaching hospital compliance is not met the college will be deemed to have not met the requirements of this standard.



## 3. Methodology

### **Recognition Evaluation (Pre-requisite):**

Recognition evaluation is performed to evaluate adherence of the college with the “PMDC Standards for Recognition of Medical and Dental College” to ensure adequate and safe teaching facilities are available for the students of the college. Recognition evaluation is carried out by team of inspectors. Details of evaluation methodology are described in this document. **The recognition granted to the medical college shall be restricted to the primary site and shall not be applicable to sub campus(es) or branch(es)**

The process of evaluation is explained in detail as below:

#### **Medical and Dental College’s Responsibilities**

For a recognition inspection, the university with which the medical college is a constituent or affiliated will conduct a self-evaluation based on the standards in this document based on data of twelve-month period prior to the visit and submit the required copies to the Inspection Cell at PMDC at least one month prior to the visit.

The Inspection Cell of PMDC shall select inspectors for the recognition evaluation survey at least two weeks prior to the survey.

#### **Inspection Coordinator**

In preparation for the inspection visit, the dean should select a person to coordinate the logistics of the visit. This person will serve as the liaison with the PMDC Inspection Cell about preparations, scheduling and site visit arrangements.

#### **Provision of a ‘Inspectors Room’ at the College**

The team will require a dedicated room at the college. The room should have a furniture enough to accommodate the team. It should, preferably, be close to the dean's office, so that staff can control access and adjust the schedule as needed. The dean’s office should provide any additional material the team may need in the room, including copies of self-evaluation reports and any other documents requested by the team

#### **The Inspection Schedule**

The PMDC Inspection Cell in collaboration with the college and the team finalises the schedule at least two weeks before the team arrives.

The administrators of clinical facilities should be advised that surveyors may be visiting patient care units.



## Typical Survey Plan

A typical inspection of a college consists of:

1. **Infrastructure Evaluation:** This evaluation is conducted by an architect appointed by PMDC along with two civil technologists.
 

College Responsibility: For this evaluation, the medical and dental college is required to submit a CAD drawing (in soft) of its layout to PMDC Quality and Accreditation Cell. College shall also ensure that relevant engineers or technologists are available during the site visit.

PMDC Responsibility: The appointed architect shall study the drawing and verify that the drawing meets the requirements for covered area by the PMDC. In case, the drawing meets the requirements of PMDC standards, architect and two civil technologists will visit the college for one day and verify the actual building layout with the CAD Drawings of the college.

Duration: Typical duration of this evaluation shall be one-day.
  
2. **Equipment Evaluation:** This evaluation is conducted by a team of a biomedical engineer and assisting quantity-surveyors to verify that the equipment required in each section of the college is available. Basic Sciences faculty member as part of the inspection team may assist in ascertaining the suitability of equipment in the laboratory and Clinical Sciences faculty member as part of the inspection team may assist in ascertaining the suitability of equipment in the hospital.
 

College Responsibility: For this evaluation, the college is required to submit self-evaluation of the inventory of all equipment required by the standards. This includes the equipment required in the teaching hospital. College shall also ensure that relevant engineers or technologists at the college and hospital are available during the visit.

PMDC Responsibility: The appointed engineers and technologists shall study the self-evaluation. In case, the self-evaluation meets the requirements of PMDC standards, biomedical engineers and a quantity-surveyor shall verify all the medical equipment in the college and teaching hospital.

Duration: Typical duration of this evaluation shall be two-days.
  
3. **Faculty Evaluation:** This evaluation is conducted by two inspectors appointed by PMDC, one Health Professional Education Expert and one Health Institution Management Expert.
 

College Responsibility: For this evaluation, it is the college's responsibility to do a self-evaluation of the basic sciences and clinical faculty of the college. It is also college's responsibility to ensure availability of head of department of each basic science faculty during the evaluation visit.

PMDC Responsibility: The appointed inspectors shall review the list of faculty submitted by the college before the visit. During the evaluation visit, the inspectors will review faculty contract documents, speak to various faculty members and heads of departments, and review curricular document to correlate faculty requirements to education delivery.

Duration: Typical duration of this evaluation will be 0.5 days.

4. **Hospital Evaluation:** This evaluation is conducted by an inspector appointed by PMDC, Hospital Management and Safety Expert.

College Responsibility: For this evaluation, it is the college's responsibility to do a self-evaluation of the meeting the requirements of the teaching hospital. It is also college's responsibility to ensure availability of hospital administration and any other relevant documents or data during the visit.

PMDC Responsibility: The appointed inspector shall review the clinical facilities during the hospital tour. The inspector shall ensure that all those clinical specialties that are required are available in the teaching hospital(s). Moreover, the inspector shall ensure that patient load is according to the minimum requirements of the standards.

Duration: Typical duration of this evaluation will be 1 day.

Surveyor	Evaluation
Architect and Civil Supervisors	Evaluation of the college layout submitted to PMDC to actual – and comparing it with the space requirements of PMDC
Biomedical Engineer and Quantity Surveyor	Evaluation all medical equipment requirements
Health Professional Education Expert and Health Institution Management Expert	Curriculum Evaluation/Faculty Evaluation/Student Evaluation
Hospital Management and Safety Expert	Teaching Hospital Evaluation/Medical College Safety Tour
Basic Sciences Faculty Member	Basic Sciences-Medical College Facilities Evaluation
Clinical Sciences Faculty Member	Hospital Equipment and Patient Load Evaluation

Amendments  
Upto 300 MBBS

ANNEX

Point number	To be added	To be deleted	To be amended
1.7			Common rooms 7% to be replaced by 5%
2.2			2 cadavers to be replaced by 3
2.6			Two histology to be replaced with <b>four</b> histology
2.14	(Optional) to be added		
2.16			One lower limb to be replaced with <b>eleven</b>
2.23-2.27	Prosected Segment		
2.31	(Optional) to be added		
2.33		-	<b>For anatomy museum</b> At least one multimedia available, functional and in use for teaching purpose
2.33.1	<b>For anatomy museum</b> At least two white boards available, functional and in use for teaching purpose	-	-
2.100.1	<b>Biochemistry</b>		
2.100.2	<b>Major Equipment</b>		
2.100.3	<ul style="list-style-type: none"> <li>• 3 Microlabs functional and in use</li> <li>• 10 microscopes functional &amp; in use</li> <li>• 2 refrigerators functional and in use</li> </ul>		
After 2.129	-	-	*Items at ser 2.119– 2.130 To be replaced by <b>2.118-2.129</b>
2.286			Microscope (spelling to be corrected)
2.258	Automated to be added	Manual to be deleted	
2.259		Hand held to be deleted	



2.262	1 Prism bar (Horizontal) available, functional and in use.	1 autolenometer to be deleted	
2.269		1 Prism bar (horizontal to be deleted)	
2.271	1 Automated visual field analyzer Bjerrum screen available, functional and in use	1 Hess screen to be deleted	
3.132			One chief librarian and three deputy librarians to be replaced with <b>one librarian</b> and <b>three</b> deputy librarians
4.2		The college must provide clinical teaching to students in a hospital with a functioning electronic health management information system with capabilities of recording of <b>(to be deleted from the end of 4.2).</b>	
4.3	<b>(to be added at the start of 4.3):</b> The college must provide clinical teaching to students in a hospital with a functioning electronic health management information system with capabilities of recording of		
4.30	<b>Each Nephrology and pulmonology</b> to be added	<b>Neurology</b> to be deleted	
4.46	<b>Each Nephrology and pulmonology</b> to be added	<b>Neurology</b> to be deleted	

## Abbreviations

<b>A&amp;E</b>	Accident & Emergency	<b>MICU</b>	Medical Intensive Care Unit
<b>ACLS</b>	Advanced Cardiac Life Support	<b>MRI</b>	Medical Resonance Imaging
<b>ATLS</b>	Advanced Trauma life support	<b>MoU</b>	Memorandum of Understanding
<b>ALOS</b>	Average Length of Stay	<b>MCQ's</b>	Multiple Choice Questions
<b>CTG</b>	Cardiotocography	<b>NRP</b>	Neonatal Resuscitation Program
	Central Sterilization and Storage		
<b>CSSD</b>	Department	<b>OSPE</b>	Objective Structured Practical Exam
<b>CT</b>	Computed Tomography	<b>Ob/Gyn</b>	Obstetrics and Gynaecology
<b>CAD</b>	Computer Aided Design	<b>OR</b>	Operation Room
<b>CME</b>	Continuing Medical Education	<b>OT</b>	Operation Theatre
	Continuing Professional		
<b>CPD</b>	Development	<b>OPG</b>	Orthopantomogram
<b>CCU</b>	Critical Cardiac Unit	<b>OPD</b>	Out Patient Department
<b>ENT</b>	Ear, Nose and Throat	<b>PMDC</b>	Pakistan Medical and Dental Council
			Pakistan Nuclear Regulatory
<b>FDP</b>	Faculty Development Program	<b>PNRA</b>	Authority
<b>HOD's</b>	Head of Department	<b>PALS</b>	Pediatric Advanced Life support
	Health Management Information		
<b>HMIS</b>	Systems	<b>PPM</b>	Periodic Preventive Maintenance
			Security and Exchange Commission
<b>HDU</b>	High Dependency Unit	<b>SECP</b>	of Pakistan
<b>HEC</b>	Higher Education Commission	<b>sq. ft.</b>	Square Foot
<b>HR</b>	Human Resource	<b>TOS</b>	Table of Specifications
<b>IPD</b>	In Patient Department	<b>TORs</b>	Terms of Reference
<b>IT</b>	Information Technology	<b>TLD</b>	Thermoluminescent dosimeter
<b>ICU</b>	Intensive Care Unit	<b>TB</b>	Tuberculosis
			World Federation of Medical
<b>LOS</b>	Length of Stay	<b>WFME</b>	Education
<b>MSDS</b>	Material Safety Data Sheet		